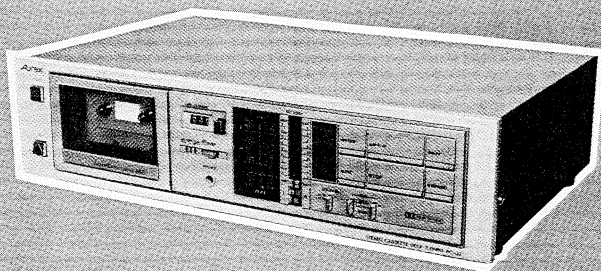


# TOSHIBA

## STEREO CASSETTE DECK

# PC-G2, PC-G2T



### SPECIFICATIONS

<b>Heads:</b>	Record/playback AP head Erase AF (2-gap ferrite) head	<b>Total Distortion:</b>	0.8% (400 Hz, 0 dB chrome position tape)
<b>Drive System:</b>	2-motor IC logic control	<b>Bias Frequency:</b>	85 kHz
<b>Motors:</b>	DC servo motor for capstan drive DC motor for reel drive	<b>Input Terminals:</b>	MIC: 0.25mV (600 ohm – 10k ohm) LINE: 70mV (50k ohm)
<b>Tape Speed:</b>	4.8 cm/sec.	<b>Output Terminals:</b>	LINE: 0.4V (50k ohm) Headphones: 0.1mW (8 ohm)
<b>Wow &amp; Flutter:</b>	0.045% WRMS, $\pm 0.17\%$ DIN	<b>Power Supply:</b>	AC 220V $\sim$ 50 Hz (TE, TD) AC 240V $\sim$ 50 Hz (TU, AY) AC 110 – 127/220 – 240V $\sim$ 50/60 Hz (VF)
<b>Fast Forward and Rewind Time:</b>	Approx. 70 sec. (C-60 tape)	<b>Major Dimensions:</b>	AC 120V $\sim$ 60 Hz (TA, TC) 420(W) x 110(H) x 270(D)mm (including front panel knobs etc. and rubber supports)
<b>Frequency Response:</b>	20 – 18,000 Hz with metal tape and –20 dB input 20 – 16,000 Hz with chrome position tape and –20 dB input 20 – 15,000 Hz with normal tape and –20 dB input	<b>Weight:</b>	3.9 kg
<b>SN Ratio:</b>	58 dB (peak level, WTD, chrome position tape)		

Specifications are subject to change without notice.

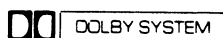
G2: TE, TD, TU, AY, VF, TA, TC G2T: TE, TU, AY

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## 1. FEATURES

- IC logic feather-touch switches for soft fingertip operations.
- Remote control jacks for remote control operation from the comfort of a lounge chair (when optional remote control unit connected).
- Dolby NR for elimination of irritating "tape hiss".
- 3-position tape selector including metal tape position.
- Capacity for unattended recording and morning alarm playback.
- Soft eject mechanism for smooth ejection of tapes.
- Extra large LED digital peak meter.
- Sliding type recording volume control for simple settings.
- Main tape mode control buttons (PLAY, REC and PAUSE) designed to light up when pressed, thereby simplifying operating procedures.
- Performance further improved by dual-motor system for independent capstan and reel drive.



\* Noise Reduction System is manufactured under license from Dolby Laboratories.  
"DOLBY" and the Double-D symbol are Trademarks of Dolby Laboratories Inc.

## 2. BLOCK DIAGRAM

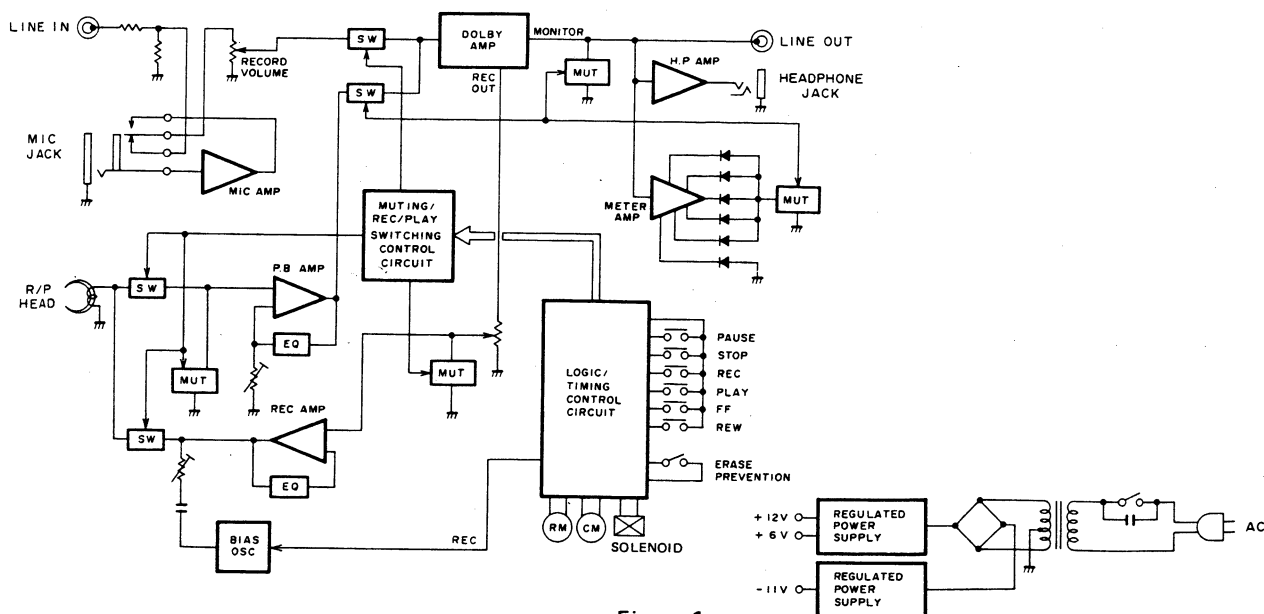
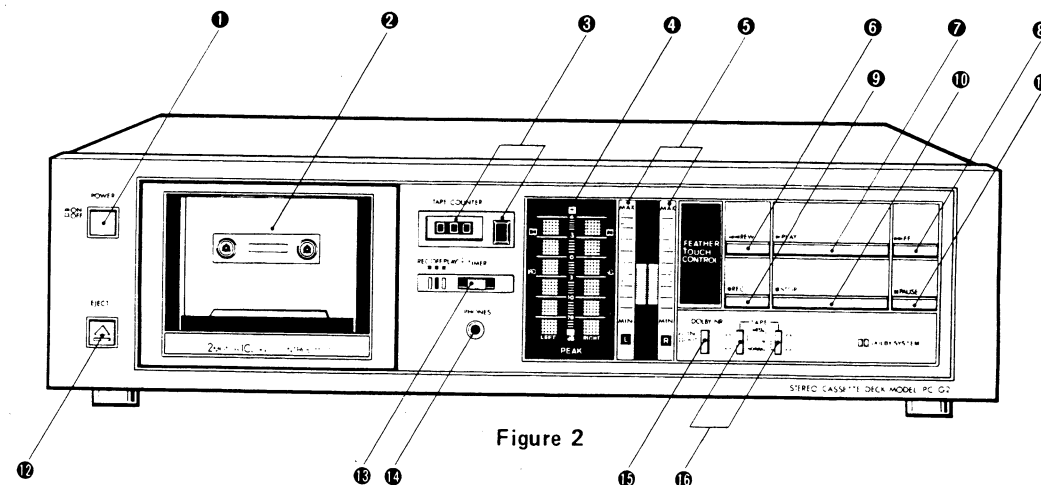


Figure 1

### 3. OPERATING CONTROLS



- 1 POWER Switch
- 2 Cassette Compartment Door
- 3 TAPE COUNTER and Reset Button
- 4 Peak Level Meters
- 5 Record Level Adjustment Control  
Adjust the recording level for line and mic inputs with this control (<R> for right channel, <L> for left channel).
- 6 [◀REW] Rewind Button

Figure 2

- 7 [▶PLAY] Play Button
- 8 [▶▶FF] Fast Forward Button
- 9 [●REC] Record Button  
Recording mode is started by pressing this button. Note, however, that the deck cannot be put into recording mode if there is no tape loaded in the cassette compartment, or if the cassette tape erasure prevention tabs have been broken off.

- 10 [■STOP] Stop Button
- 11 [||PAUSE] Pause Button
- 12 [▲EJECT] Eject Button
- 13 [TIMER] Timer Standby Switch  
By using an optional audio timer unit, unattended recording and morning alarm playback are possible.
- 14 [PHONES] Headphones Jack  
Plug in a pair of headphones for quiet private listening.
- 15 DOLBY\* NR Switch  
Push this switch for Dolby NR recording and for playback of Dolby encoded tapes. Tape hiss in the mid and high frequency regions is suppressed.  
\* Noise reduction system manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- 16 TAPE Selector Switch  
Switch to the position corresponding to the type of tape being used.

	[TAPE] Switch	
	Left	Right
Metal Tape		
Chrome Position Tape		
Normal Tape		

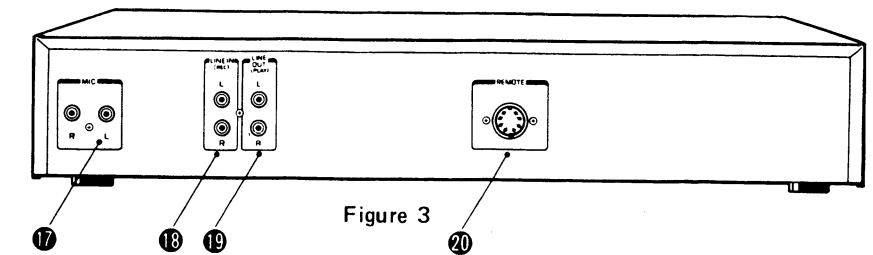


Figure 3

- 17 Microphone Jacks  
For live microphone recording, plug in the microphones to these rear panel jacks (L—left channel, R—right channel).
- 18 LINE IN Recording Terminals  
Connect to the REC OUT terminals on the rear panel of your stereo amplifier.
- 19 LINE OUT Playback Terminals  
Connect to the PLAY IN terminals on the rear panel of your stereo amplifier.
- 20 REMOTE CONTROL Connector  
The RM-20S remote control unit may be connected here for remote control purposes.

VF MODEL

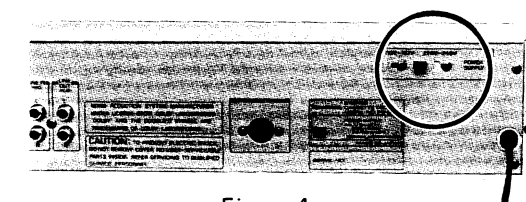


Figure 4

TD MODEL

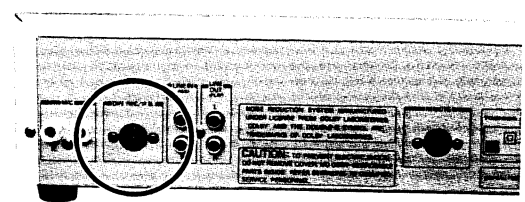


Figure 5

#### Recording

##### ■ Recording from Phonograph Records or Tuner

**Note:** Make sure that the TIMER standby switch is in the OFF position.

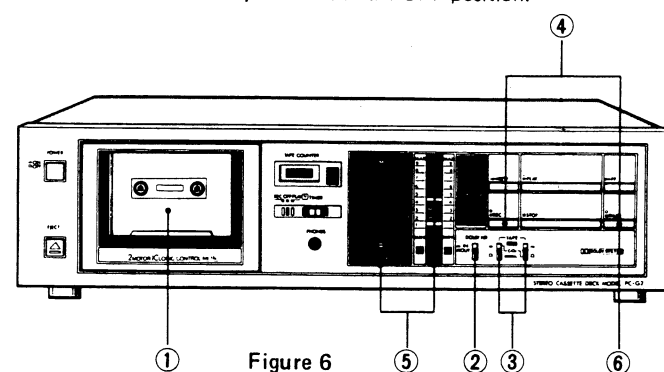


Figure 6

- 1 Place a cassette tape in the cassette compartment.
- 2 Select the DOLBY NR switch.
- 3 Set the TAPE selector switch to the position corresponding to the type of tape.
- 4 After first pressing the pause button [|| PAUSE], press the record button [● REC].
- 5 Use the peak level meters and the record level adjustment control to adjust the input level to the best recording level.
- 6 Press the [|| PAUSE] button a second time to commence recording.

##### ■ Stereo Microphone Recording (Live Recording)

Plug a pair of microphones into the microphone jacks in the rear panel, and proceed according to the recording method described above.

### 4. OPERATING INSTRUCTIONS

##### ■ Recording Level Adjustment

Generally, the type of tape used and the recording level setting will effect the recording frequency response. For example, the frequency response of metal tapes (particularly in middle and high frequency regions) is considerably better than normal tapes at the same level setting. Furthermore, the recording/playback frequency response is also improved by setting the recording level at somewhat lower levels for the same tape.

When the tape selector is switched to the chrome position, optimum recording level will be indicated by the top yellow indicator flashing on now and again during the recording. When switched to the normal or metal tape positions, the optimum levels will be a little lower and a little higher respectively. It is recommended, however, that some test recording be done first to find the most suitable recording levels.

##### ■ Playback

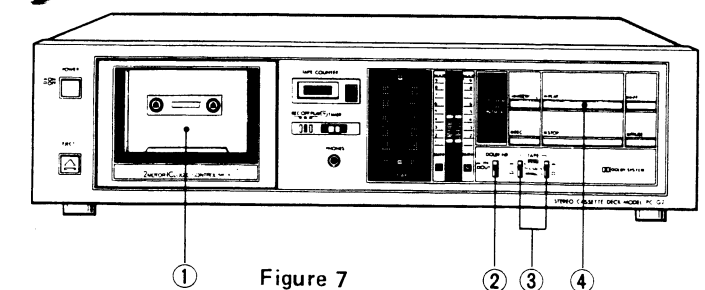


Figure 7

- 1 Place the desired cassette tape in the cassette compartment.
- 2 Select the DOLBY NR switch.
- 3 Set the TAPE selector switch to the position which corresponds to the type of tape.
- 4 Press the play button [▶PLAY].

**Note:** Check that the TIMER standby switch is in the OFF position.

## 5. DISASSEMBLY INSTRUCTIONS

### TOP COVER REMOVAL

1. Remove two screws (A) ( $3\phi \times 12\text{mm}$ ) from each side of the top cover. (See Figure 8).
2. Remove two screws (B) ( $3\phi \times 8\text{mm}$ ) from the rear side. (See Figure 9).
3. Lifting the top cover upward, pull it backwards and the top cover can be removed out.

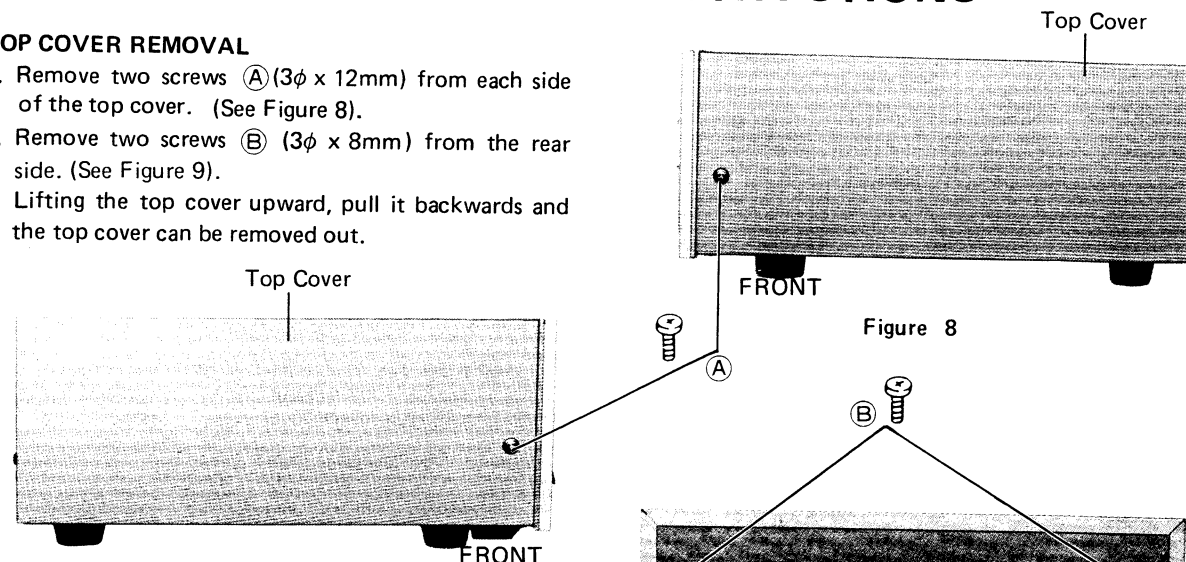


Figure 8

Figure 9

### CASSETTE COVER REMOVAL

1. Push the eject button to open the cassette cover.
  2. Press the top and bottom of cassette cover with fingers, and take it upward in the direction of the arrow (C). (See Figure 10).
- Then the cassette cover can be removed from the unit.

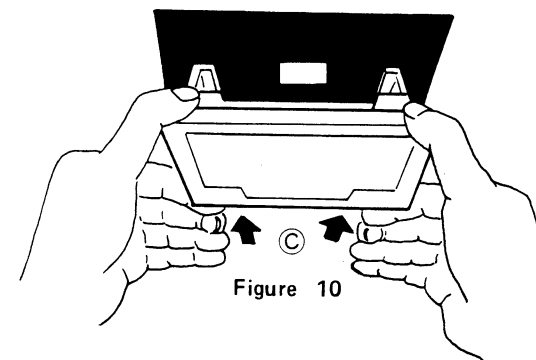


Figure 10

### FRONT PANEL ASSEMBLY REMOVAL

1. Remove the top cover.
2. Remove two screws (D) ( $3\phi \times 6\text{mm}$ ) from both sides of the unit. (See Figure 11)
3. Remove three screws (E) ( $3\phi \times 8\text{mm}$ ) from the bottom side of the unit. (See Figure 12).
4. The front panel assembly can be removed from the unit.

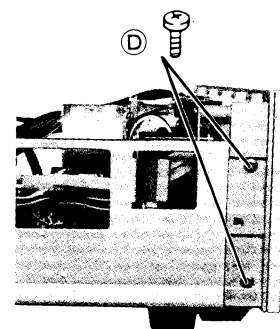


Figure 11

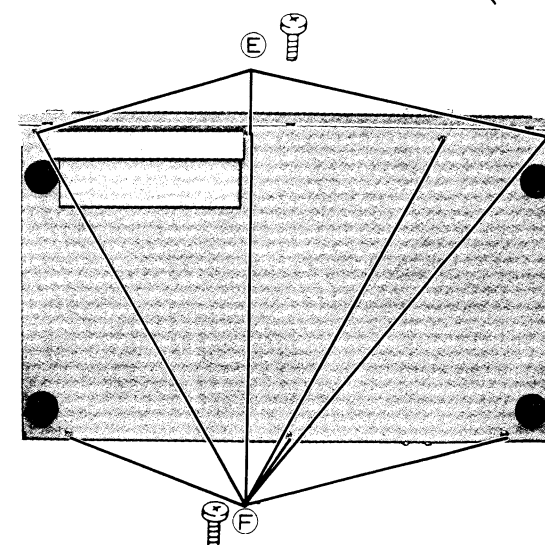


Figure 12

### BOTTOM PLATE REMOVAL

1. Remove seven screws (F) ( $3\phi \times 8\text{mm}$ ) from the bottom side. (See Figure 12)

### VOLUME AND PEAK METER P.C. BOARD REMOVAL

1. Remove two screws (G) ( $3\phi \times 25\text{mm}$ ) from the front panel assembly. (See Figure 13).

### TIMER SWITCH P.C. BOARD AND HEADPHONE P.C. BOARD REMOVAL

1. Remove the volume P.C. Board and the peak meter P.C. Board as described above.
2. Remove two screws (H) ( $2.6\phi \times 8\text{mm}$ ) and the timer switch P.C. Board and the headphone P.C. Board can be removed together with the LED holder. Take care of reassembly. (See Figure 13)

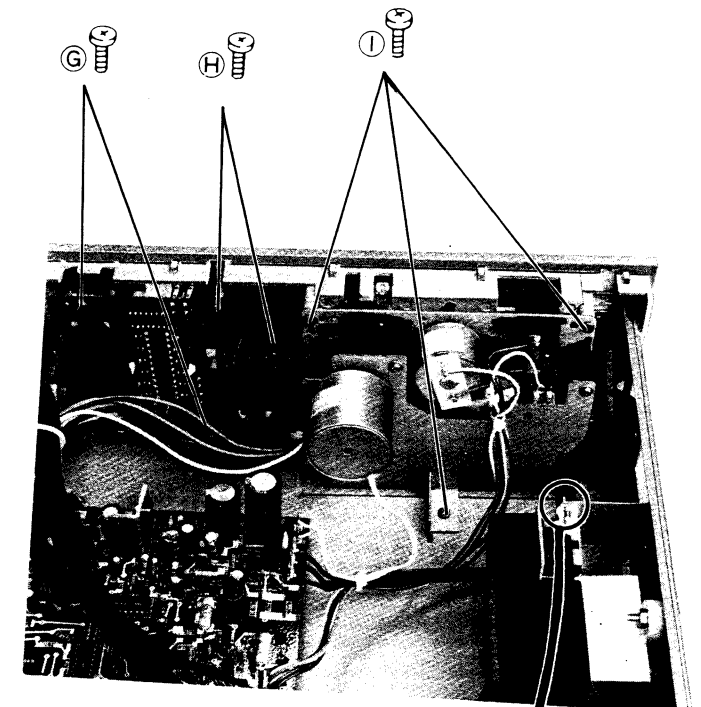
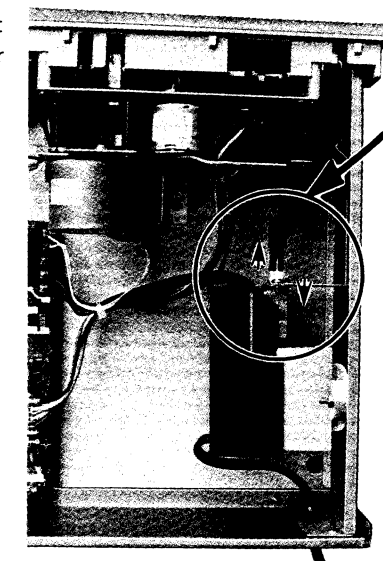


Figure 13

### MECHANISM ASSEMBLY REMOVAL

1. Push the eject button to open the cassette holder.
2. Remove three screws (I) ( $3\phi \times 8\text{mm}$ ) and ( $3\phi \times 6\text{mm}$ ) from the front panel assembly. (See Figure 13).
3. Then the mechanism assembly can be removed from the front panel assembly.

**CAUTION:** The counter belt is taken off when the mechanism assembly is removed. When reassembly, string the counter belt between the take-up reel and the counter pulley.



**CAUTION:** Before disassembling the mechanism assembly, take off the connecting part of power switch and push rod (Power) in the directions of arrows and lift up the push rod to remove it off.



## 6. TECHNICAL POINTS

### TC9143P IC Logic Control

#### Outline

The two motor electronic control system with feather touch switching basically depends on the C.MOS. IC, TA9143P.

1. Input keys permit a non-lock system and change the level to "H" in a moment to gain a desired mode.
2. Direct change between all operational modes is possible and the mode passes through the stop mode if necessary.
3. Countermeasures have been taken for operational errors such as push of plural input keys at a time.
4. When the power is on, the mode is set up to stop.
5. Input terminals of TC9143P are organized as Input/Output.

#### Maximum Rating

Item	Symbol	Rating	Unit
Power Voltage	VDD	12	V
Input Voltage	VIN	$-0.3 \sim V_{DD} + 0.3$	V
Power Consumption	PD	300	mW
Output Current	Iout	30	mA
Operational Temperature	Topr	$-30 \sim +75$	°C
Preservative Temperature	Totg	$-55 \sim +125$	°C

#### Pin Connection

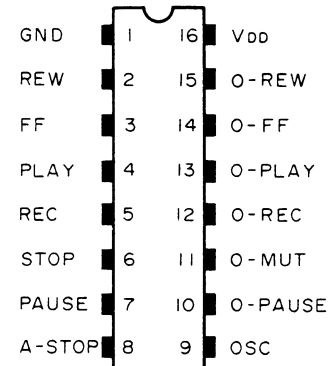


Figure 14

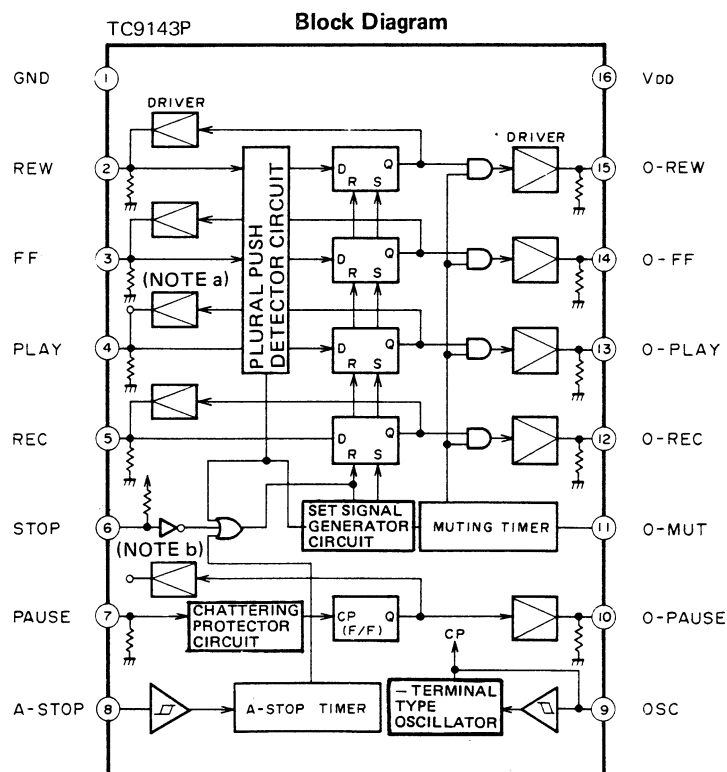


Figure 15

Names and Functions of Pins

Pin NO.	Names	Functions	NOTE
1	GND	Ground terminal	—
2	REW	Input of tape rewind order	1
3	FF	Input of fast forward order of tape	1
4	PLAY	Input of tape playback and recording order by simultaneous push with REC	1
5	REC	Input of source monitor and recording order by simultaneous push with PLAY	1
6	STOP	Input of operational stop order	2
7	PAUSE	Input of temporary stop and release order of PLAY	—
8	A-STOP	Input terminal of stopping tape running	3
9	OSC	Input terminal for timing oscillator	4
10	O-PAUSE	Output at pause mode	—
11	O-MUTE	Output for a definite duration of time when changing the mode	—
12	O-REC	Output at recording mode	—
13	O-PLAY	Output at playback and recording modes	—
14	O-FF	Output at fast forward mode	—
15	O-REW	Output at rewind mode	—
16	VDD	Source terminal	—

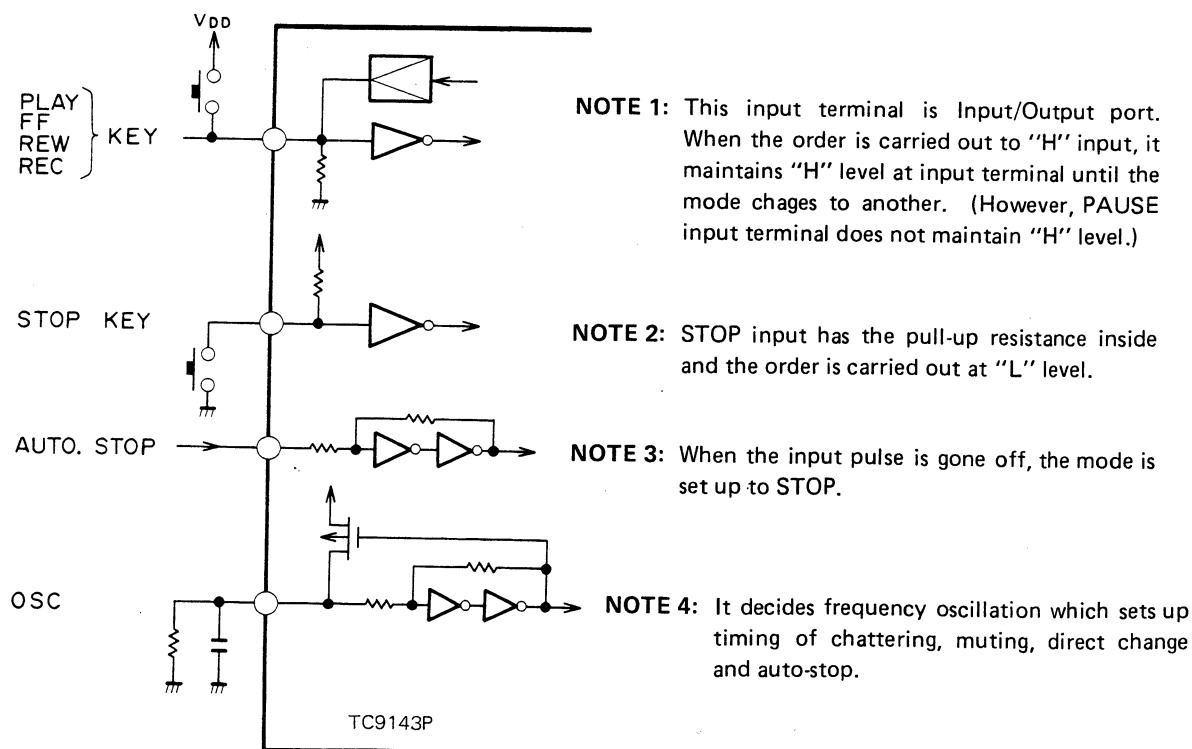


Figure 16

## ■ Operational Timing

The operational timing inside is set up as it follows with frequency oscillation as  $f_{osc}$ .

$f_{osc} \approx 120 \text{ Hz}$

### 1. Chattering Prevention Timing

$$t \approx \frac{2}{f_{osc}} \approx 15 \text{ msec.}$$

### 2. Muting Timing

$$T_1 \approx \frac{8}{f_{osc}} \approx 70 \text{ msec.}$$

### 3. Direct Change/Auto Stop Timing

$$T_2 \approx \frac{32}{f_{osc}} \approx 260 \text{ msec.}$$

### 4. Auto-Stop Detecting Timing

$$T_3 \approx \frac{64}{f_{osc}} \approx 500 \text{ msec.}$$

## ■ Operational Timing toward Key Input of Each Output Terminal

### (a) Operation of Muting Timer (O-MUT Terminal)

When the mode change is conveyed from the key input, the muting timer cuts off the output from the audio amplifier for a definite duration of time and erases pop noise that generates when changing the mode.

This time length lasts for about 70 milli-seconds for operation from the stop mode and about 330 milli-seconds for direct change operation. (However, since it takes 0.4 second for auto-stop, it takes 0.1 second for muting.)

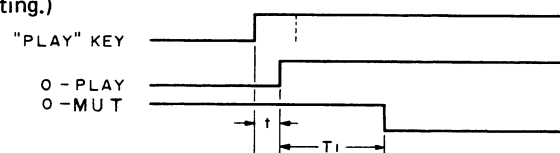


Figure 17

### (b) Mode Change from except Stop Mode (Direct Change)

When changing the mode directly, the stop mode automatically lasts for about 260 milli-seconds in order to protect the tape.

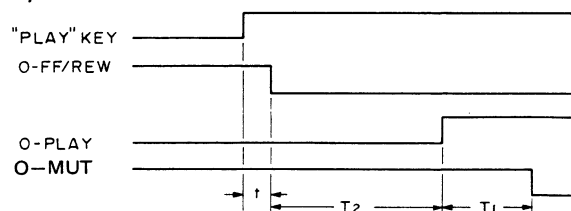


Figure 18

### (c) Auto-Stop Operation

When the detector signal of reel stand revolution finishes at point (a), the output of PLAY/FF/REW changes to the stop mode at point (b) after  $T_3$  of 500 msec.

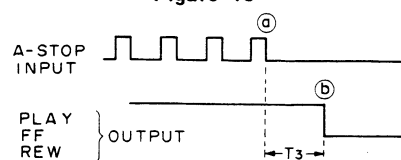


Figure 19

### (d) Initializing with Power On

With the power on, the level of STOP input terminal of IC TC9143P is changed to "L" during T of the charging constant by R603 and C602, and maintains the stop mode when the circuit becomes stable, the terminal accepts the other input key. With the power off, the terminal quickly discharges through D601 and the mode changes to stop.

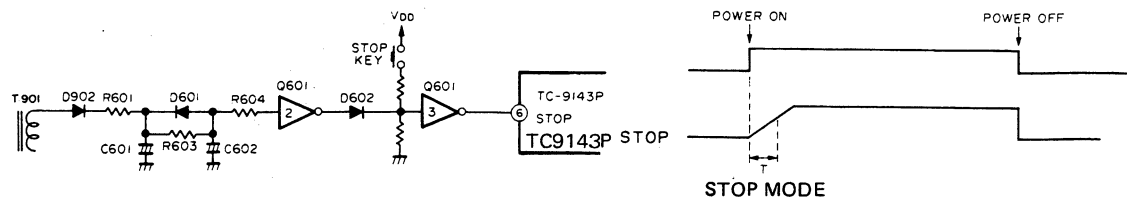


Figure 20

- **Deck Mechanism and Logic Control System**

The head chassis of the deck moves with the inertia of the flywheel. The relation of mechanism with the logic control is as follows.

- (1) The key input activates the logic IC to gain the output.
- (2) The solenoid operates the cam to activate the inertia of the flywheel which is conveyed to the head chassis and consequently the head comes into contact with the tape. It takes about 300 msec.
- (3) After 350 msec., the reel motor revolves to take up the tape.
- (4) After 500 msec., the muting is taken off to start recording or playing back.

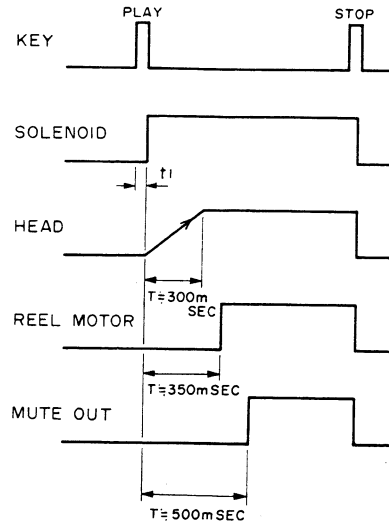


Figure 21

## 7. EXPLANATION OF LOGIC CIRCUIT OPERATION

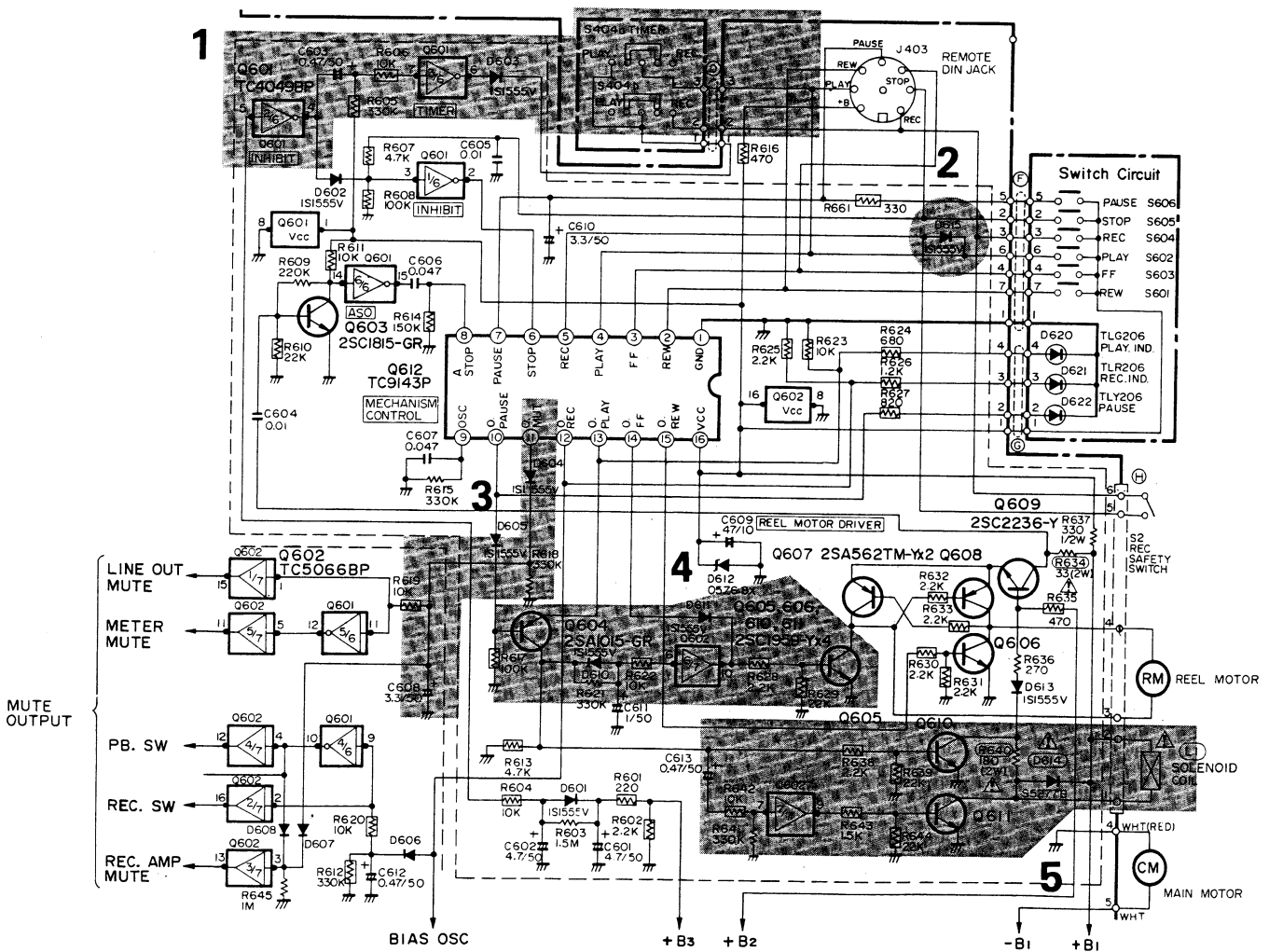


Figure 22



### Deck Mechanism and Logic Control System

The head chassis of the deck moves with the inertia of the flywheel. The relation of mechanism with the logic control is as follows.

- (1) The key input activates the logic IC to gain the output.
- (2) The solenoid operates the cam to activate the inertia of the flywheel which is conveyed to the head chassis and consequently the head comes into contact with the tape. It takes about 300 msec.
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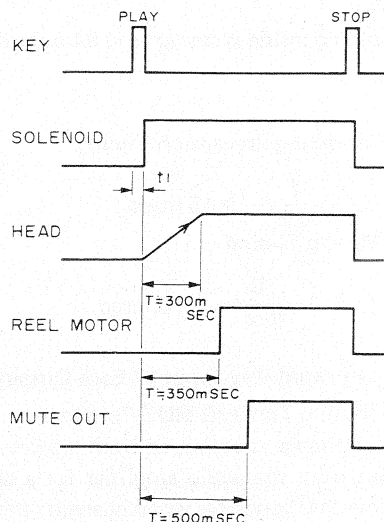


Figure 21

## 7. EXPLANATION OF LOGIC CIRCUIT OPERATION

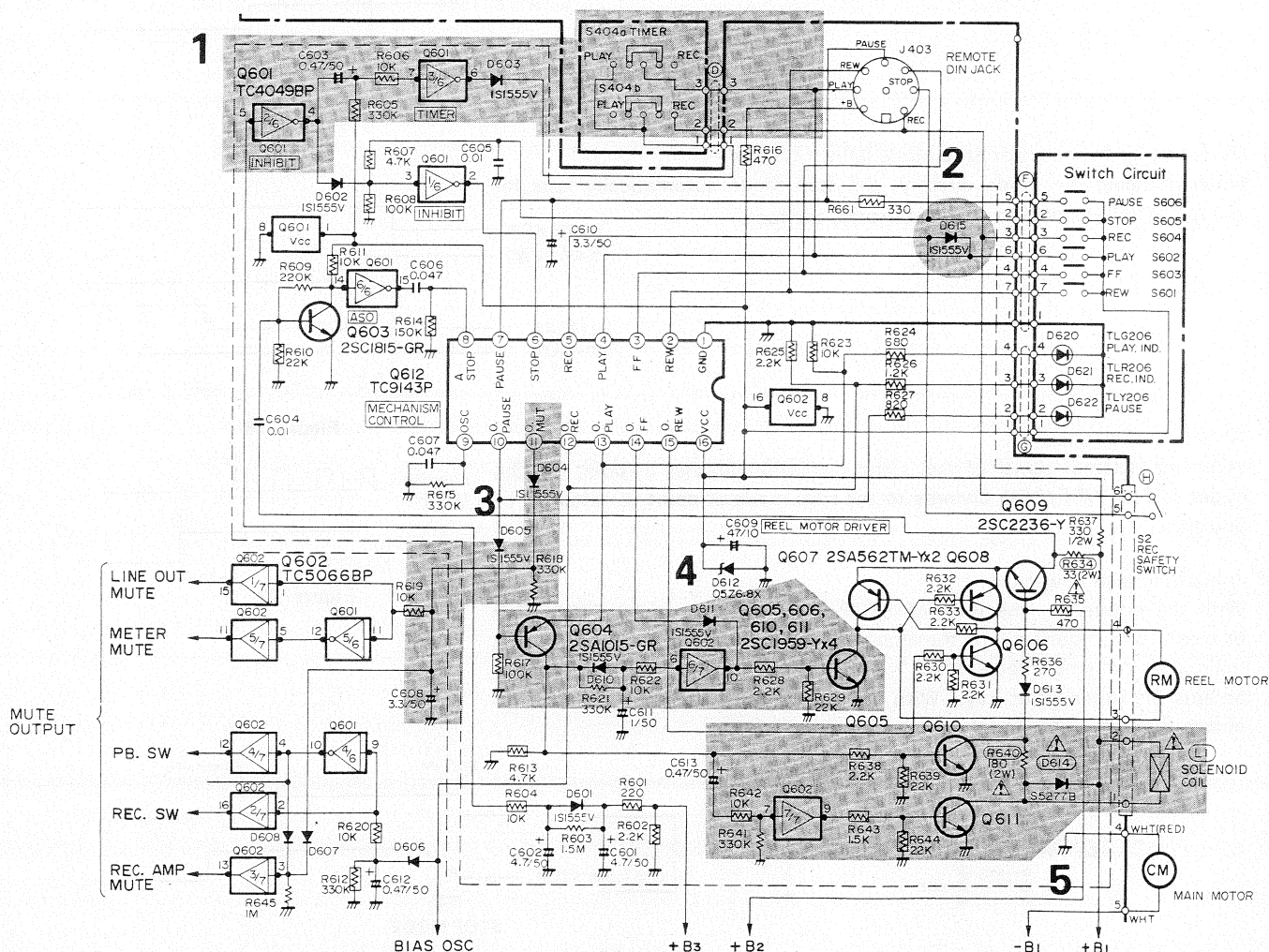


Figure 22

1. After the power is turned on, the electrical level at point B is delayed by time constant of R603 and C602. After T seconds when the level reaches the threshold electrical level of inverter Q601-2, the output C is gained, differentiated at C603, and conveys the order to PLAY or REC/PLAY of logic IC through inverter Q601-1. Delay time T is set up to about four seconds until the circuit of the set becomes stable.

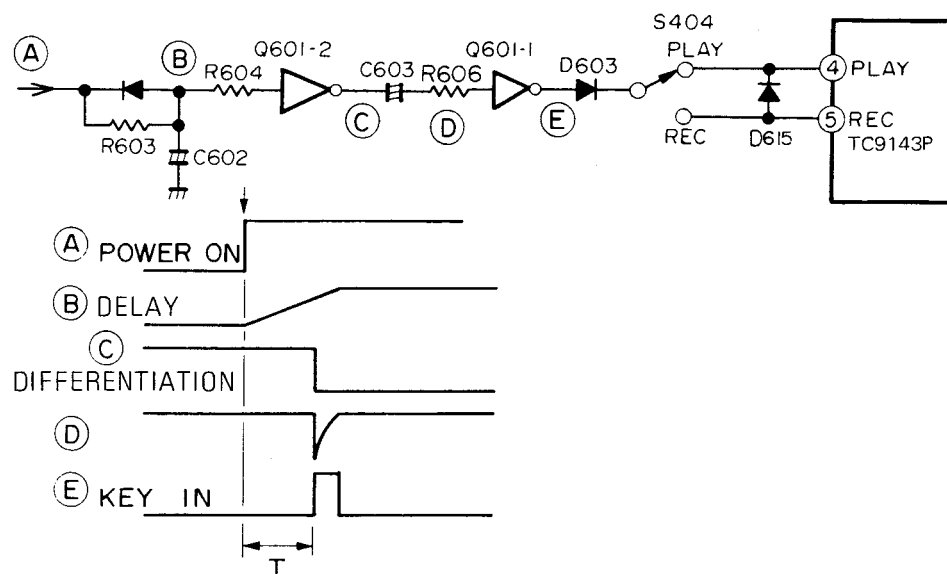


Figure 23

2. When operating the record key, the diode conveys the order to REC and PLAY simultaneously.

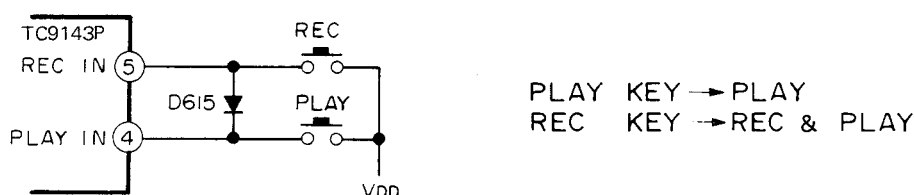


Figure 24

3. When the tape starts to run stably after key input is given from PLAY and REC, the muting signal gains recording and playback signal.

At  $T_2$  (about 260 milli-seconds) after pushing in the key, O-MUTE terminal of IC logic changes "L" from "H". The muting control signal of about 0.4 to 0.5 second is gained by time constant of R618 and C608.

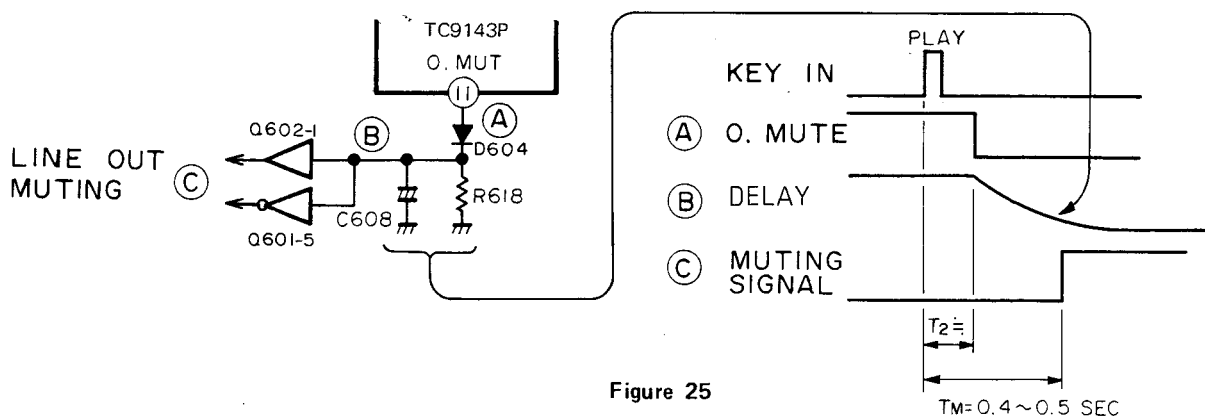


Figure 25

4. When pushing in the play key, O-PLAY output (A) of IC logic is gained. This signal operates the solenoid to contact the tape and the head with inertia of the flywheel. After completing this, the reel motor revolves to take up the tape. Delay time for this is about 0.3 second.

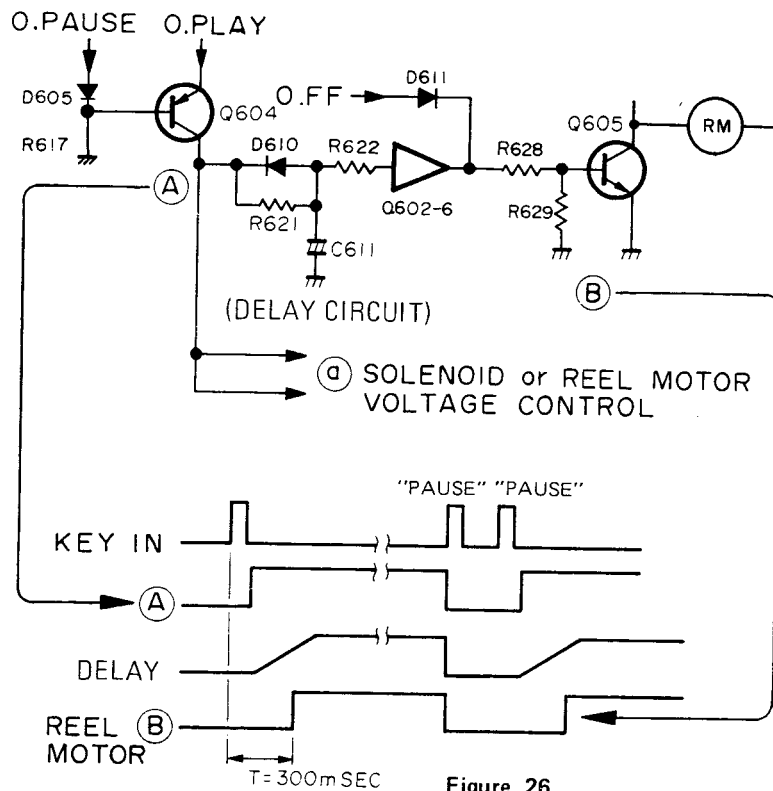


Figure 26

5. The solenoid drive restricts the current after the solenoid is completely pulled for electricity saving and firing protection. The drive signal of the solenoid is divided into Q610 and 611. At the beginning of the pull, the signal which was differentiated at C613 is given to Q611 and the large current is allowed to be flown. After the pull, R640 in series restricts the current to Q610.

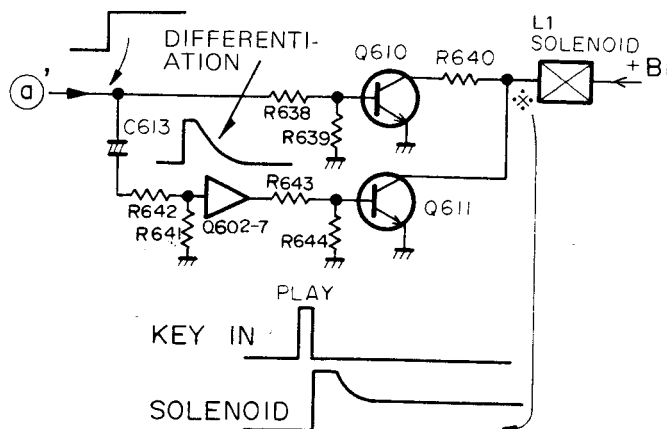


Figure 27

## 8. TECHNICAL ADJUSTMENTS

### Replacement & Adjustment of Solenoid

(a) Take off the solder from the solenoid terminal.

(b) remove two screws (BID 2.6 x 4) holding the solenoid.

**CAUTION:** ● The tips of screws appear by shifting the lock slider (D) lightly to the left (toward outside) when removing the screws.

● These screws can be removed with a clock screwdriver or thin driver. If such drivers are unavailable, remove the eject lever and lock slider (D).

(c) Replace the solenoid to new one.

**CAUTION:** When reassembling, use the specified screws. Longer screws touch the coils in the solenoid and as a result, it brings a rare shorting of them. It may happen to cause not only the solenoid disorder but also a fire and a burning because of overheat of ground spring.

(d) Adjustment of Installation Position

The solenoid assembly can be moved a little forward or backward by holding the tip of solenoid pin and the rear side of it in current penetrating state.

In this state, set the clearance 0.1 to 0.3mm between the 3 $\phi$  tip of solenoid lever and the square hole of mechanism chassis as shown in Figure 28.

● If the fingers do not touch the tip of the solenoid pin but the solenoid lever, the exact adjustment cannot be done because the state becomes like that when the lever is more moved than when the electric is going through the solenoid.

● If there is no space described above, the solenoid cannot be fully pulled when the electric is going through, does not maintain the play mode when changing from the stop mode, and the head slider goes back easily.

(e) Confirm that the operation of the solenoid lever and the head slider is normal after repeating to change the modes from stop to play with the electric current going through.

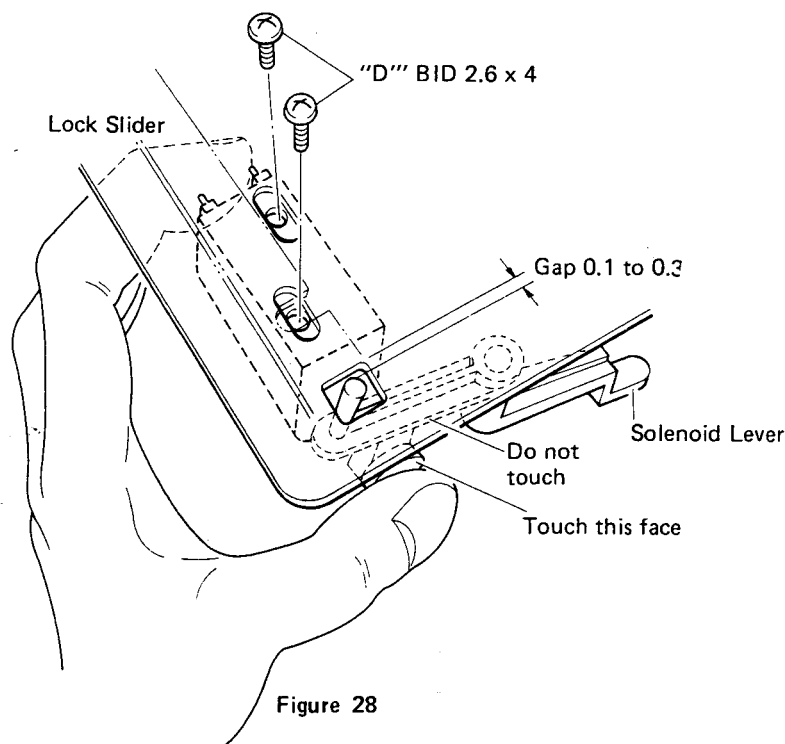


Figure 28

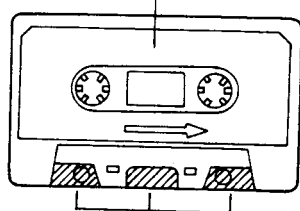


### Replacement & Adjustment of R/P Combination Head

- Disconnect four head lead wires (single cored shield wire) and remove two head installation screws (BID  $2\phi \times 5\text{mm}$ /DT BID  $2\phi \times 12\text{mm}$ ).
- Replace the R/P head.
- Reassemble the head installation screws and the head lead wires.
- Confirm the head height as follows.

Set the Head azimuth adjustment screws so that the head becomes horizontal by measuring with the eyes and confirm that the mirror cassette (MC-09C) or C-90 cassette (cut off the shaded portions to remodel as shown in Figure 29) is not curled on play mode.

C-90 Cassette Tape (Remodeled)



Take off the shaded portion.

Figure 29

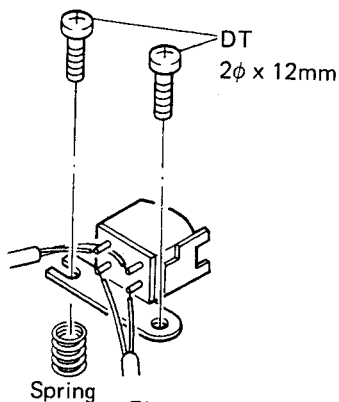


Figure 30

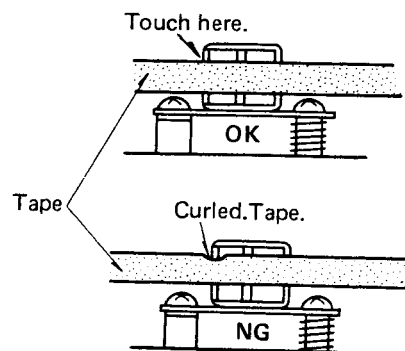


Figure 31

## 9. ELECTRICAL ADJUSTMENTS

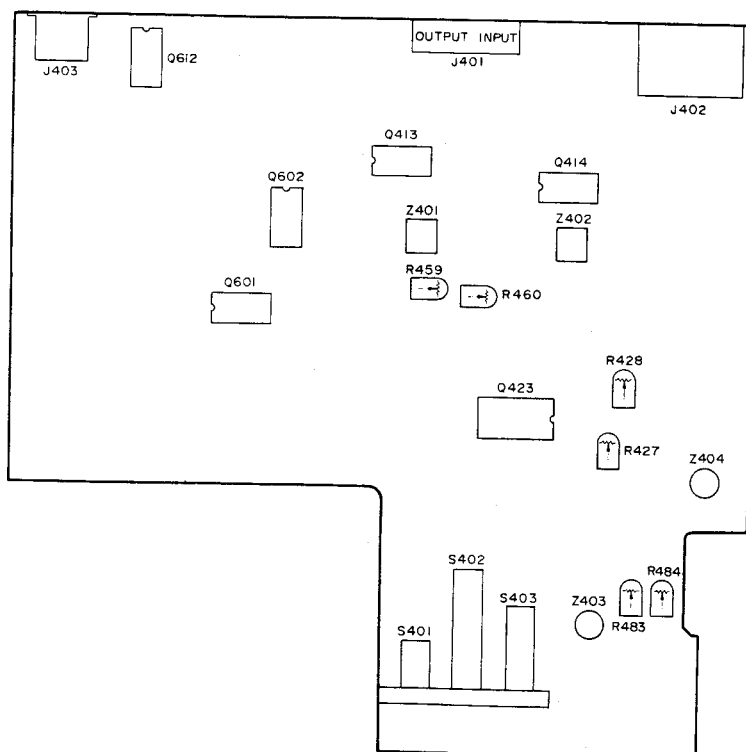



Figure 32

■ ADJUSTMENT PROCEDURES

No.	Adjustment Item	Test Value	Test Tape	Volume Control REC	Switch Position			Adjustable Parts	Test Point	Input Frequency (ATT)	Remarks
					TAPE	NR	INPUT				
1	Head Azimuth Adjustment	Maximum	MTT-114	_____	NOR	OUT	LINE	Adjusting Screw 	LINE OUT	—	Apply a lock paint after adjustment.
2	Tape Speed	3000 ±30 Hz	MTT-111	_____	NOR	OUT	LINE	Internal Semifixed VR of Motor	LINE OUT	—	Take-up beginning of tape.
3	Playback Sensitivity Adjustment	500 ±10mV	MTT-150	_____	NOR	OUT	LINE	R427, 428	LINE OUT	—	
4	Line Input Sensitivity Adjustment	350 ±10mV	—	Adjustment	CrO <sub>2</sub>	OUT	LINE	REC-VR	LINE OUT	−20 dB	Do not vary REC-VR after adjustment.
5	R/P Frequency Adjustment	0 ±1 dB	AC-512	Adjustment	CrO <sub>2</sub>	OUT	LINE	R483, 484	LINE OUT	400 Hz 10 kHz −40 dB	Variation of 10 kHz to 400 Hz.
6	R/P Sensitivity Adjustment	Monitor Output	AC-512	Adjustment	CrO <sub>2</sub>	OUT	LINE	R459, 460	LINE OUT	400 Hz, −20 dB	Monitor Output: 350 mV, (Reference Value)
<div>Measurement Condition</div> <div><div>• Power Supply: TE/TD: 220V, TU/AY = 240V, VF = 110 – 127/220 – 240V TA, TC = 120V</div><div>• Input: 0 dB 1V rms • LINE IN (Input Impedance): 600 ohms</div><div>• LINE OUT (Load Impedance): 47K ohm • Test Point Load Impedance: Non Load.</div></div>											

- TEST EQUIPMENTS**
- VTVM (Vacuum Tube Voltmeter)
  - Signal Generator
  - Resistance Attenuator
  - Screwdriver
  - Test Tapes:  
MTT-111 (Speed 3 KHz – 5 dB)  
MTT-114 (Azimuth 10 KHz)  
MTT-150 (Dolby 400 Hz Modulation)  
AC-512 (Chrome Tape)

- TAPE HEAD HEIGHT ADJUSTMENT**
- ADJUSTMENT**
- Set in PLAY position.  
Adjust the height of the tape head to confirm that tape is not curled at the arrow point. See Figure 34.

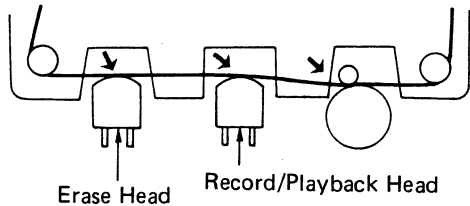


Figure 33

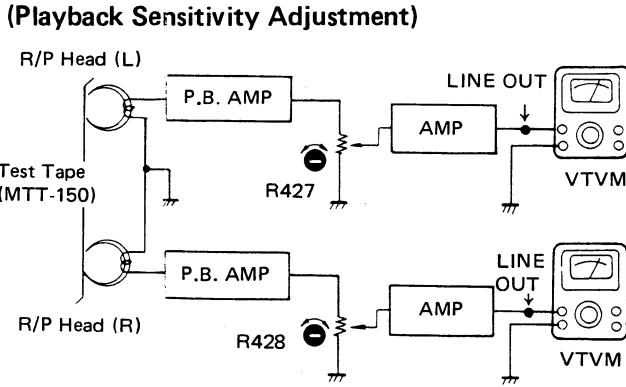


Figure 34

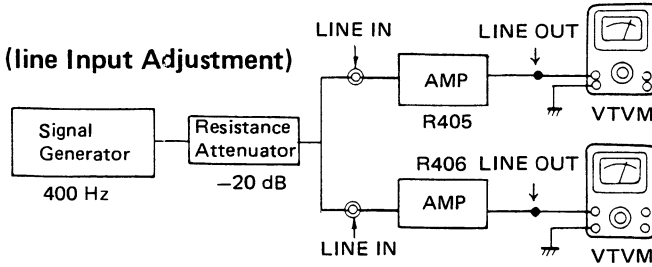


Figure 35

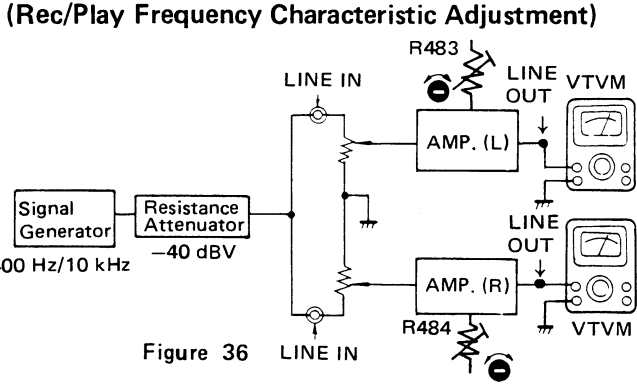


Figure 36

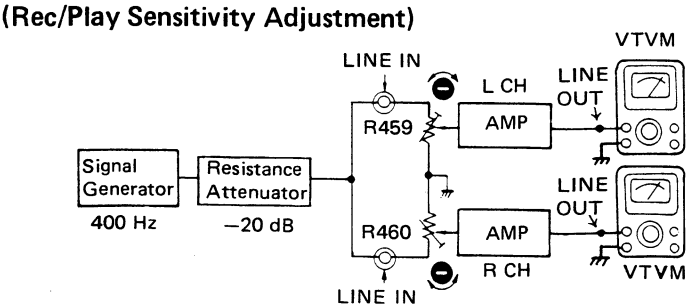


Figure 37

TE.TU.AY.VF.TC.TA

# 10. ELECTRICAL PARTS LOCATIONS

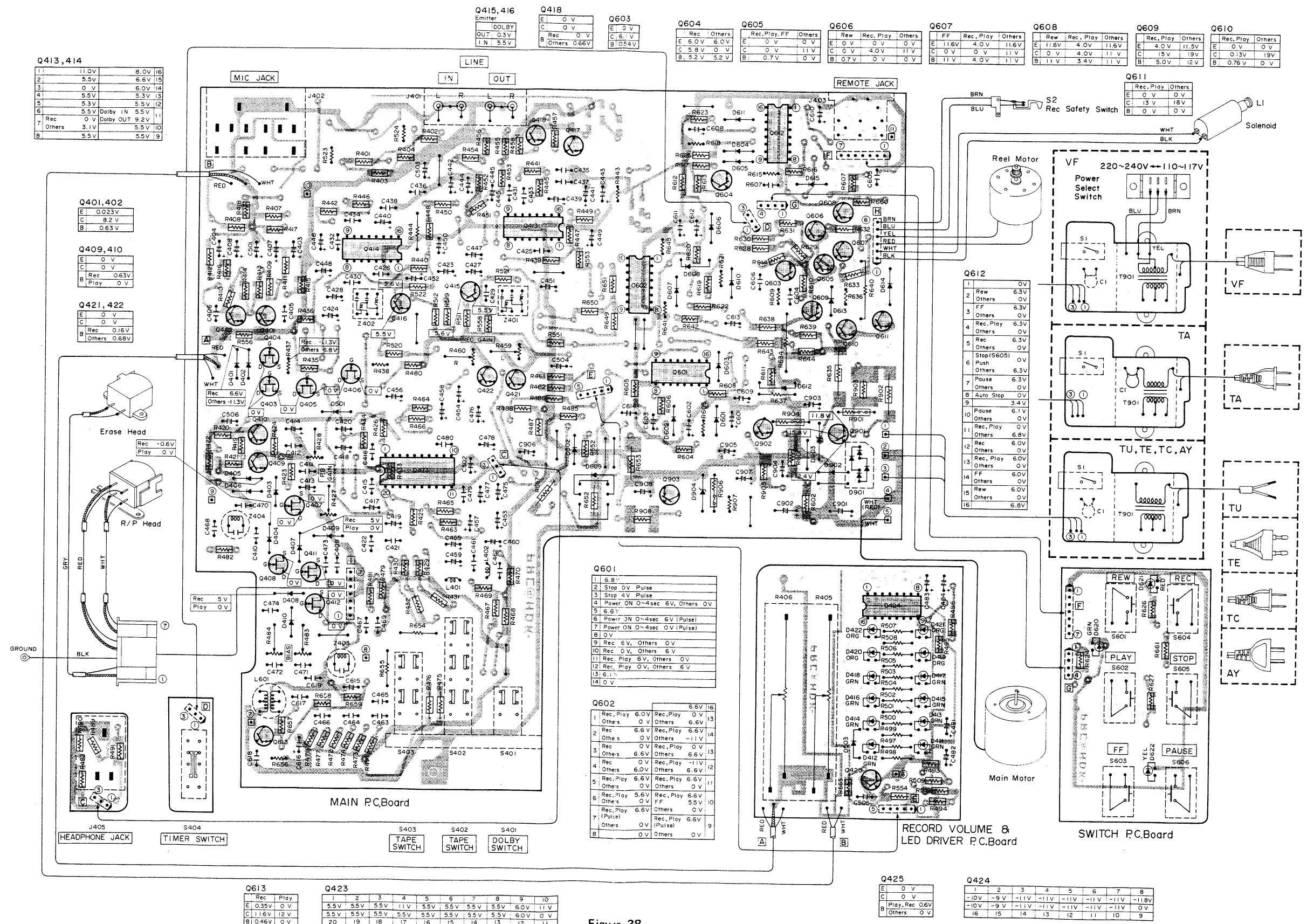
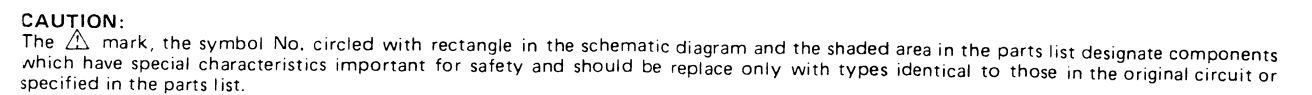


Figure 38

## 11. SCHEMATIC DIAGRAM





TD

PC-G2  
PC-G2T

PC-G2  
PC-G2T

## 12. ELECTRICAL PARTS LOCATIONS

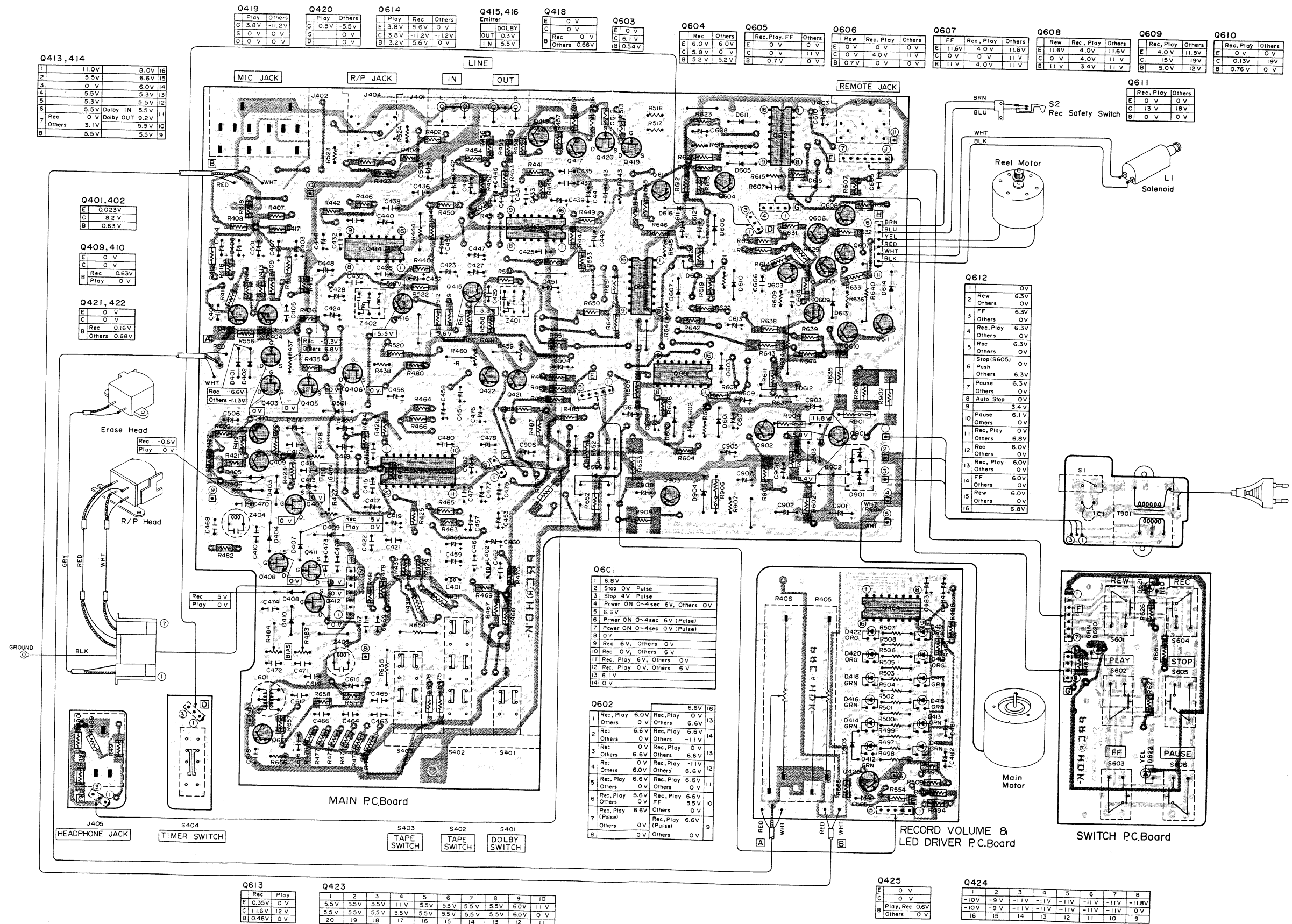


Figure 40

# **TOSHIBA**

**STEREO CASSETTE DECK**

# **PC-G2, PC-G2T**

This supplement sheet contains the following contents.

- (1) The transistors, Q409 and Q410 have been changed into FETs during production.
- (2) Only for TD, AY versions, PC-G2T (Toshiba brand) will be released as a new model. Those will employ FETs for Q409 and Q410 from the first production.
- (3) Modifications applied during production are listed.

Please refer to the original SERVICE DATA, FILE No. 100 – 150 for other information.

# 1. PARTS LIST

## Service Information

### REPLACEMENTS PARTS

Changed From				Changed To			
Symbol No.	Part No.	Description	Q'ty	Symbol No.	Part No.	Description	Q'ty
Q409, 410		Transistor, 2SC2240-GR	2	Q409, 410		Transistor, 2SK246-GR	2
R421	22555473	47K ohm (PRC)	1	R421	22555224	220K ohm (PRC)	1

### ADDITIONAL PARTS

Symbol No.	Part No.	Description	Q'ty
C485, 486	22360331	BL, 0.047mfd, 25V, M	2

### DISUSE PARTS

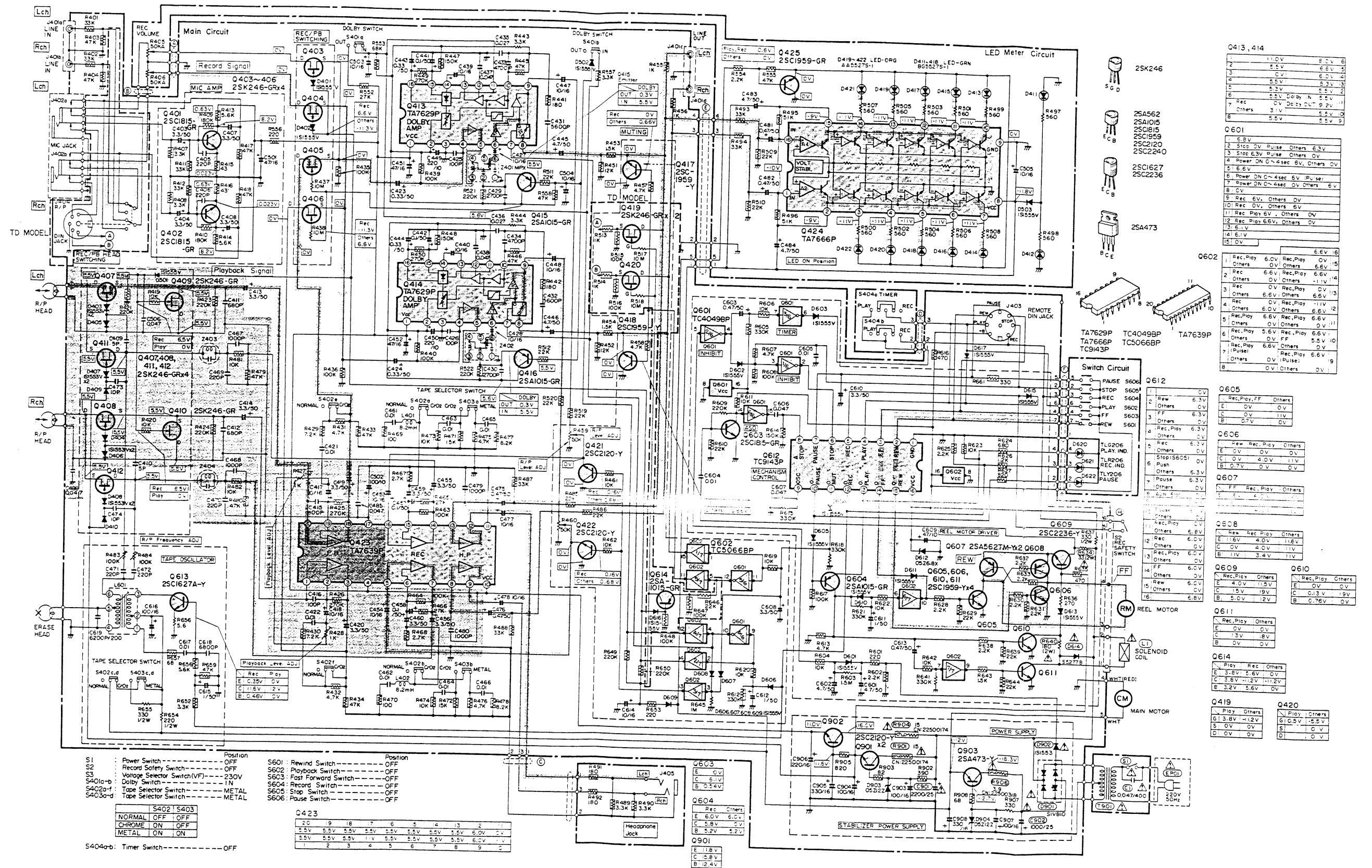
Symbol No.	Part No.	Description	Q'ty
R422	22555473	47K ohm (PRC)	1

## PC-G2T – TD, AY

### ADDITIONAL PARTS

Symbol No.	Part No.	Description	Q'ty
301	25819480	Front Panel Ass'y	1
319	25864149	Jack Plate	1
AC03	22903295	Owner's Manual	1

## 2. SCHEMATIC DIAGRAM



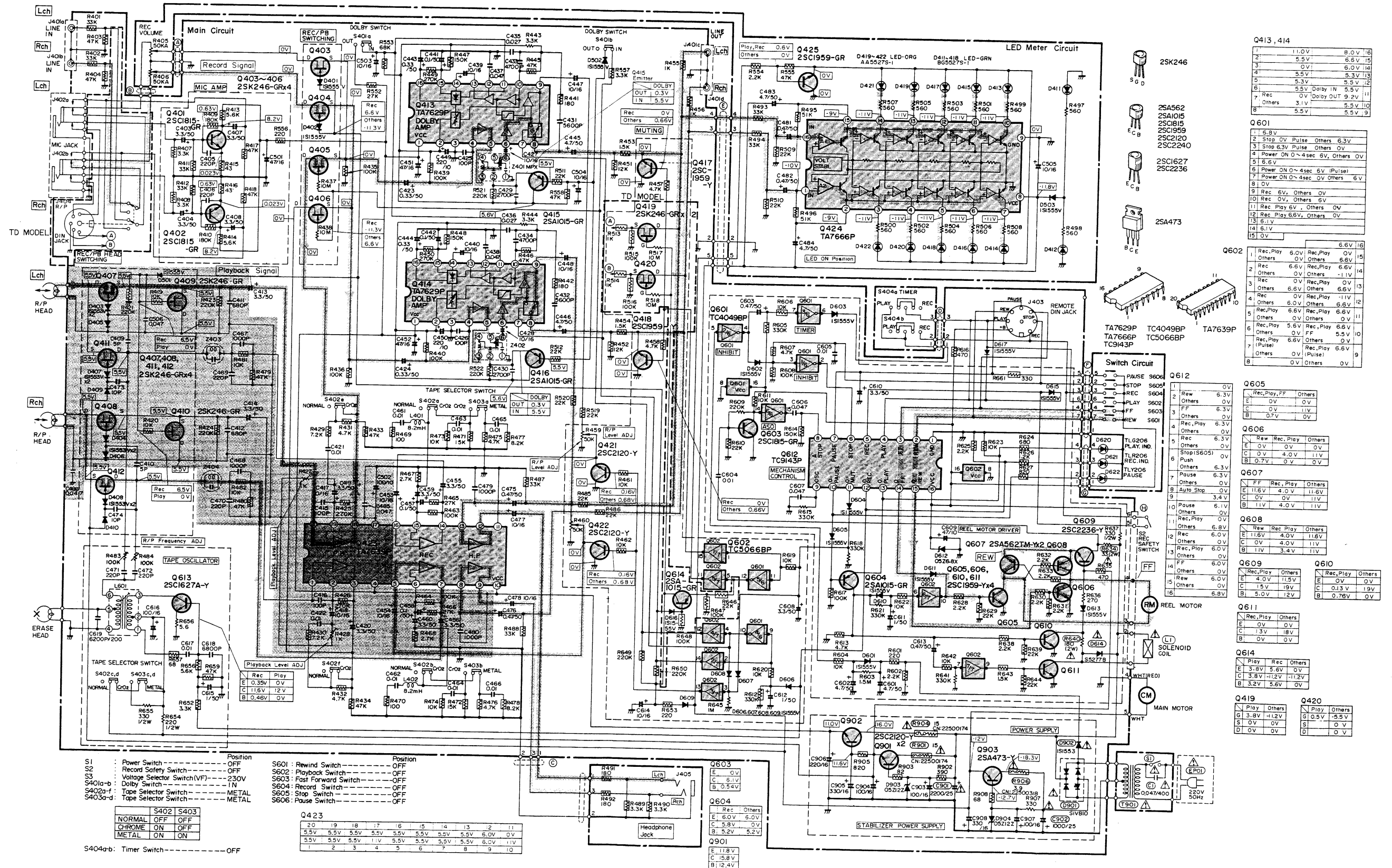
The  mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.



TD

PC-G2  
PC-G2TPC-G2  
PC-G2T

## 2. SCHEMATIC DIAGRAM

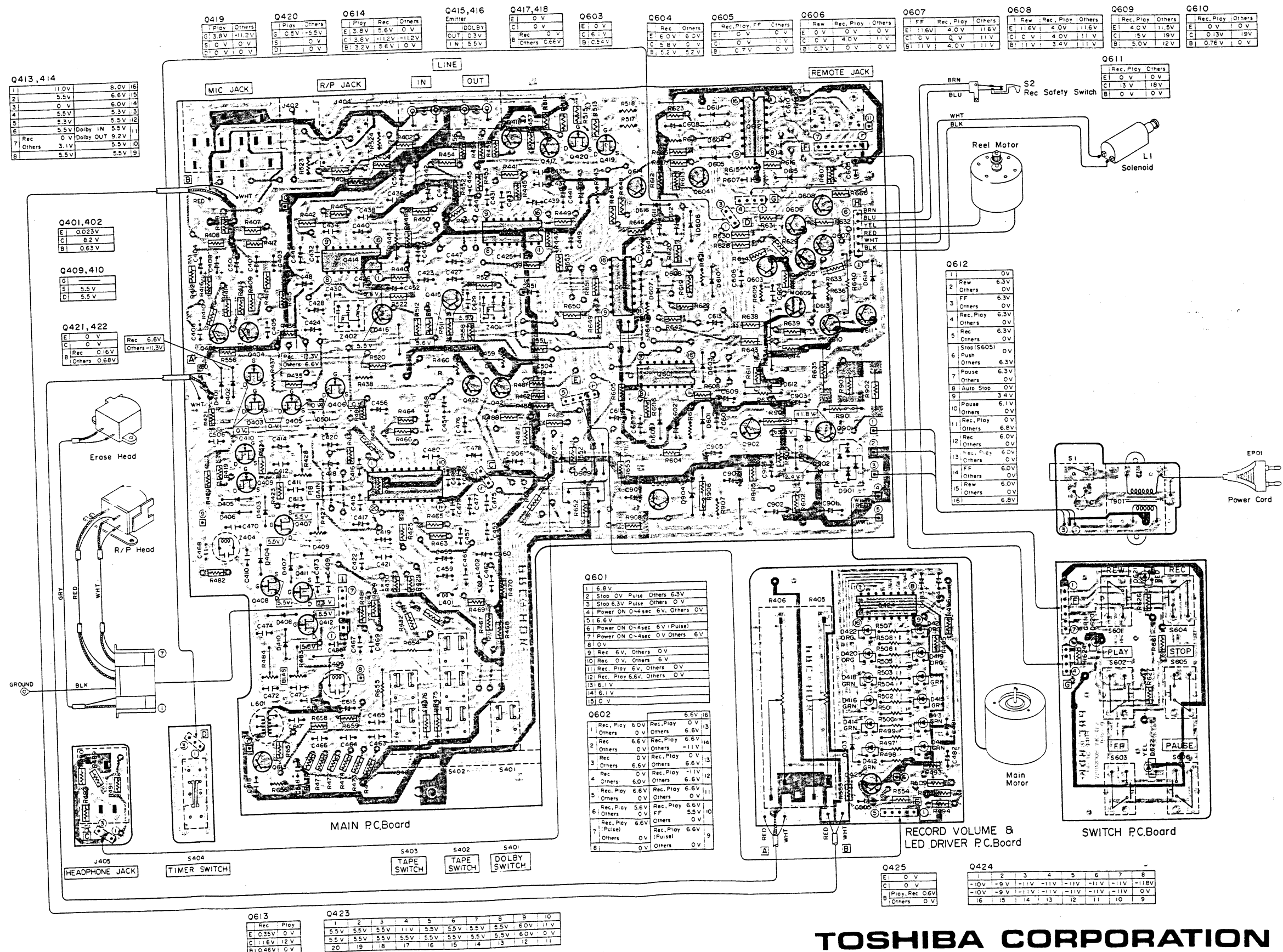


TD

PC-G2  
PC-G2T

PC-G2  
PC-G2T

### 3. ELECTRICAL PARTS LOCATIONS



**CAUTION:**  
The  $\Delta$  mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

**TOSHIBA CORPORATION**

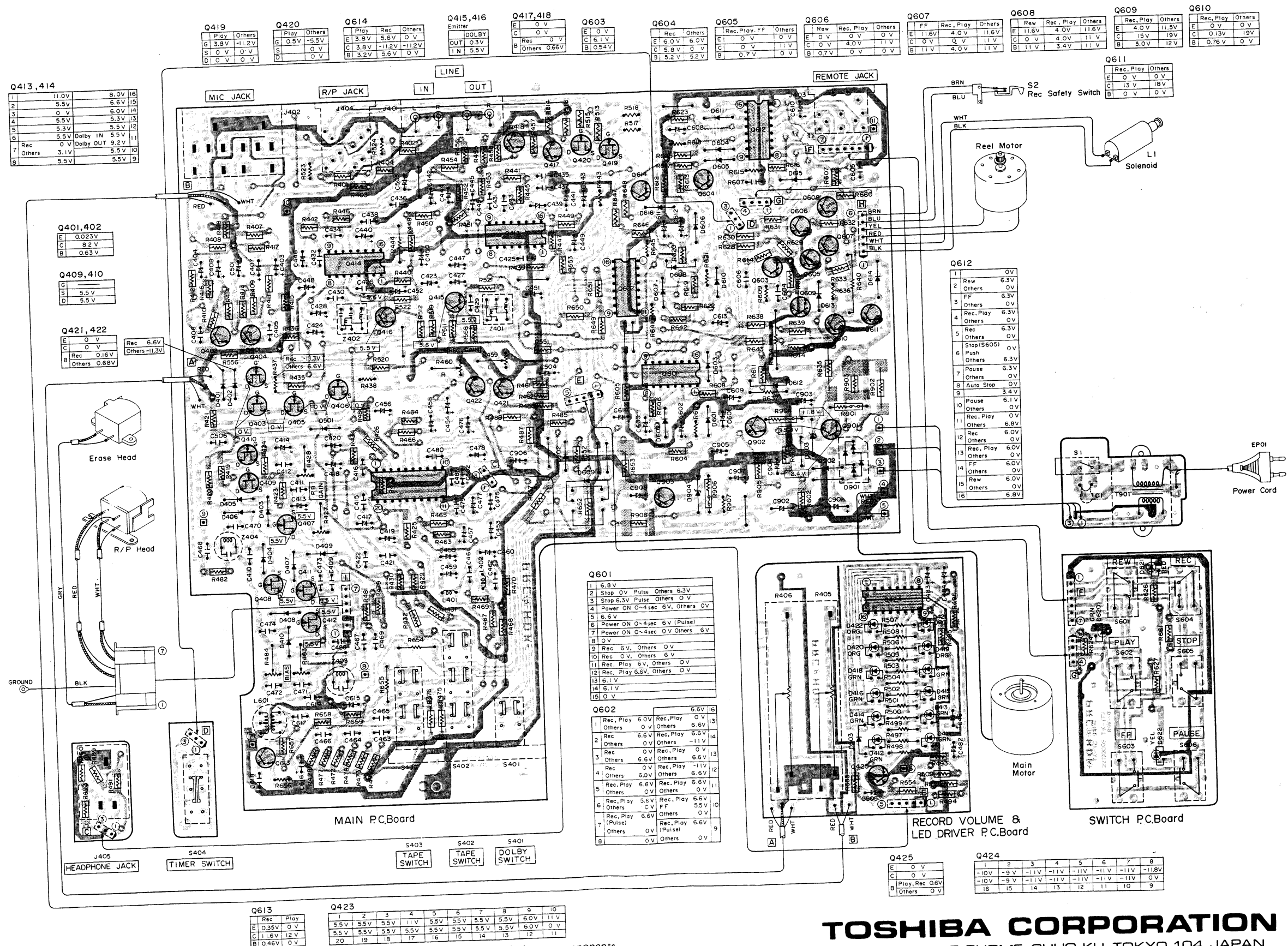
2-1, GINZA 5-CHOME, CHUO-KU, TOKYO 104, JAPAN

PRINTED IN JAPAN 22905075 Mar. 1982 ©

TD

PC-G2  
PC-G2TPC-G2  
PC-G2T

## 3. ELECTRICAL PARTS LOCATIONS



**CAUTION:**  
The  $\Delta$  mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

**TOSHIBA CORPORATION**  
2-1, GINZA 5-CHOME, CHUO-KU, TOKYO 104, JAPAN

PRINTED IN JAPAN 22905075 Mar. 1982 ©



## 14-1. EXPLODED VIEW (MECHANISM)

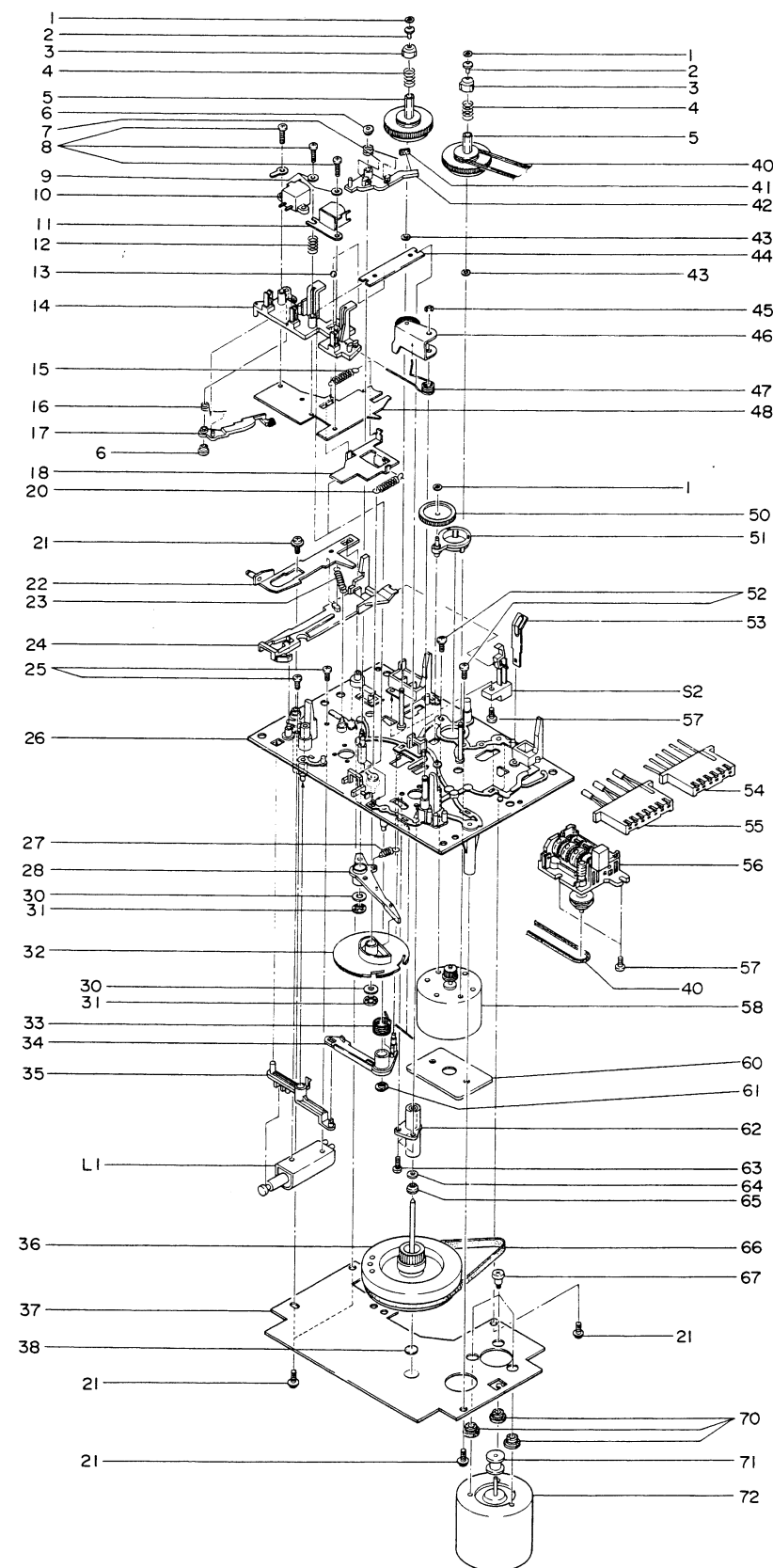


Figure 42

- 19 -

NOTE: Install the motor pulley so that the Gap should be 3.3mm.

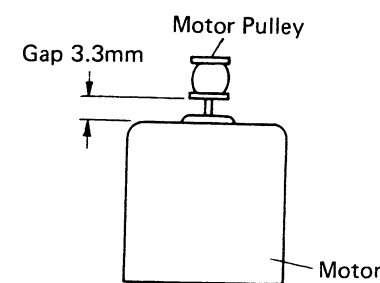


Figure 43

NOTE: Parts excluded in the parts list are not available as replacement parts.

## 14-2. PARTS LIST (MECHANISM)

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
1	25766050	Washer, 1.6φ, Reel	56	25873252	Counter
2	25754384	Capstan, Reel	57	22707301	Screw, BID, 2.6φ x 8mm, Tapping
3	25754304	Reel, Collar	58	25791358	Motor Ass'y, Reel
4	25777033	Spring, Reel	61	25783226	Bush
5	25754383	Reel, Drum	62	25717472	Capstan Holder Ass'y
6	25783199	Washer, 2φ, Tension Lever	63	22707366	Screw, DTBID, 2.6φ x 6mm
7	25773589	Spring, Tension	64	25764486	Washer, 2.5φ
8	22707692	Screw, DTBID, 2φ x 14mm	65	25777071	Spring, Flywheel
10	22218246	Head, Erase, HET-63	66	25755515	Belt, Main
11	22217385	Head, Record/Playback, HRPT-95	67	22707429	Screw, Special, Motor 2.6φ x 1.8mm x 4.9mm
12	25772240	Spring, Head	70	25761238	Cushion, Motor
13	25757120	Steel Ball, 3φ	71	25758103	Pulley, Main Motor
14	25783256	Head Base	72	22125696	Motor, Main
15	25776315	Spring, Play Slider			
16	25773590	Spring, Erase			
17	25715185	Erase Lever Ass'y			
20	25771806	Spring, Play Slider			
21	22707361	Screw, TPAN, 2.6φ x 8mm			
23	25776309	Spring, Lock Slider			
24	25782425	Lock Slider			
25	22707475	Screw, BID, 2.6φ x 4mm			
26	25791392	Main Chassis Ass'y			
27	25776288	Spring, Play Lever			
28	25782422	Play Lever			
30	22703269	Washer, 3φ			
31	20798033	Ring, Play Lever/Cam Gear			
32	25756248	Cam Gear, Play D			
33	25773529	Spring, Play Lever			
34	25782415	Lock Lever, Play			
35	25782414	Lever, Solenoid			
36	25717505	Flywheel Ass'y			
38	25764593	Washer, Thrust			
40	25755285	Belt, Counter			
41	25762406	Felt, Friction			
42	25782483	Tension Lever			
43	25764597	Washer, 2.1φ			
44	25779140	Spring, Head, Slider			
45	22703118	E Washer, 2φ Pressure Roller			
46	25717470	Pressure Roller Ass'y			
47	25773526	Spring, Pressure Roller			
50	25756241	Gear, Transfer			
51	25713539	Take-up Lever Ass'y			
52	22707323	Screw, BID, 2.6φ x 8mm			
53	25779214	Spring, Holder			

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## 16.PARTS LIST

## CAUTION:

The  $\Delta$  mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description	
IC'S, TRANSISTORS & DIODES						
Q401, 402		Transistor, 2SC1815 NEW-GR	D601, 602		Diode, 1S1555V	
Q403, 404		Transistor, 2SK246-GR	603, 604		Diode, 1S1555V (TD)	
405, 406		Transistor, 2SC2240-GR	605, 606			
407, 408			607, 608			
Q409, 410			609, 610			
Q411, 412			611			
Q413, 414			613, 615			
Q415, 416			D616			
Q417, 418			D614			Diode, S5277B
Q419, 420			D620			Diode, TLG206, LED GRN
Q421, 422			D621			Diode, TLR206, LED RED
Q423			D622			Diode, TLY206, LED YEL
Q424			D612			Diode, 05Z6.8X
Q425			D901			22115571
Q601		IC, TC4049BP	D902	Diode, 1S1553V		
Q602		IC, TC5066BP	D903, 904		Diode, 05Z12Z	
Q603		Transistor, 2SC1815NEW-GR	COILS & TRANSFORMERS			
Q604		Transistor, 2SA1015-GR	L1	22147228	Solenoid Coil, Play	
Q605, 606		Transistor, 2SC1959NEW-Y	L401, 402	22232252	Coil, 8.2mH	
Q607, 608		Transistor, 2SA562TM-Y	L601	22235201	Coil, Oscillator	
Q609		Transistor, 2SC2236-Y	T901	22224023	Transformer, Power (TE,TD)	
Q610		Transistor, 2SC1959NEW-Y	T901	22224024	Transformer, Power (TU,AY)	
Q611		Transistor, 2SC1959NEW-Y	T901	22224025	Transformer, Power (VF)	
Q612		IC, TC9143P	T901	22224022	Transformer, Power (TA)	
Q613		Transistor, 2SC1627A-Y	T901	22224026	Transformer, Power (TC)	
Q614		Transistor, 2SA1015-GR (TD)				
Q901		Transistor, 2SC2120-Y	ELECTRICAL PARTS			
Q902		Transistor, 2SC2120-Y	S1	22195686	Switch, Push, Power (TE, TU, AY, TD, VF)	
Q903		Transistor, 2SA473-Y	S1	22195811	Switch, Push, Power (TA, TC)	
D401, 402	22115708	Diode, 1S1555V	S2	22195727	Switch, Leaf, REC Sefety	
D403, 404		Diode, 1S1553V	S3	22146186	Switch, Slide, Voltage Selector (VF)	
405, 406		Diode, BG5527S-1, LED GRN				
407, 408						
409, 410						
D411, 412						
413, 414						
415, 416		22115707				
417, 418						
D419, 420						
421, 422						
D501, 502	Diode, 1S1555V					
503						

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
S401a-b	22195887	Switch, Push, Dolby NR	C425, 426	22362101	CD, 100pF, 50V, K
S402a-d	22195887	Switch, Push Tape Selector, Normal/CrO <sub>2</sub>	C427, 428	22485100	EL, 10mfd, 16V
S402a-d	22195887	Switch, Push Tape Selector, Normal/CrO <sub>2</sub>	C429, 430	22371272	MY, 2700pF, 50V, J
S403a-d	22195887	Switch, Push Tape Selector, CrO <sub>2</sub> /Metal	C431, 432	22371562	MY, 5600pF, 50V, J
S404a-b	22195888	Switch, Slide, Timer, REC/PLAY	C433, 434	22371472	MY, 4700pF, 50V, J
S601	22195930	Switch, Key, REW	C435, 436	22371273	MY, 0.027mfd, 50V, J
S602	22195930	Switch, Key, PLAY	C437, 438	22371473	MY, 0.047mfd, 50V, J
S603	22195930	Switch, Key, FF	C439, 440	22485100	EL, 10mfd, 16V
S604	22195930	Switch, Key, REC	C441, 442	22480003	EL, 0.1mfd, 50V
S605	22195930	Switch, Key, STOP	C443, 444	22488338	EL, 0.33mfd, 50V
S606	22195930	Switch, Key, PAUSE	C445, 446	22488479	EL, 4.7mfd, 50V
J401a-d	22163831	Jack, US4P	C447, 448	22485100	EL, 10mfd, 16V
J402a-b	22163886	Jack, Microphone, 6 $\phi$	C449, 450	22483221	EL, 220mfd, 10V
J403	22163879	DIN Socket, 8P, Remote Control	C451, 452	22485470	EL, 47mfd, 16V
J404	22167908	DIN Socket, 5P, Record/Playback (TD)	C453, 454	22485100	EL, 10mfd, 16V
J405	22163888	Jack, 6 $\phi$ , Headphone	C455, 456	22488339	EL, 3.3mfd, 50V
Z401, 402	22153186	Filter, Dolby	C457, 458	22480003	EL, 0.1mfd, 50V
Z403, 404	22153187	Filter, Bias Trap	C459, 460	22488339	EL, 3.3mfd, 50V
$\Delta$ EP01	22176286	Cord, Power, E2ES (TE, TD)	C461, 462	22371103	MY, 0.01mfd, 50V, J
$\Delta$ EP01	22176573	Cord, Power, EPUC (TC, TA)	C463, 464	22371103	MY, 0.01mfd, 50V, J
$\Delta$ EP01	22176588	Cord, Power, A2SA-7A (AY)	C465, 466	22371103	MY, 0.01mfd, 50V, J
$\Delta$ EP01	22176628	Cord, Power, BS2 (TU)	C467, 468	22349102	CD, 1000pF, 50V, K
$\Delta$ EP01	22176125	Cord, Power, EP (VF)	C469, 470	22349221	CD, 220pF, 50V, K
CAPACITORS			C471, 472	22349221	CD, 220pF, 50V, K
D = $\pm 0.5$ pF, J = $\pm 5$ %, K = $\pm 10$ %, M = $\pm 20$ %, P = -0 + 100%			C473, 474	22361100	CD, 10pF, 50V, D
ABBREVIATIONS: CD=Ceramic Disk, EL=Electrolytic, BL=Barrier Layer, MY=Mylar, PP=Polypropylene			C475, 476	22488478	EL, 0.47mfd, 50V
$\Delta$ C1	22340150	CD, 4700pF, 400V, M (TE, TD, TU, AY, VF)	C477, 478	22485100	EL, 10mfd, 16V
$\Delta$ C1	22340140	CD, 0.01mfd, 125V, P (TA, TC)	C479, 480	22349102	CD, 1000pF, 50V, K
C403, 404	22488339	EL, 3.3mfd, 50V	C481, 482	22488478	EL, 0.47mfd, 50V
C405, 406	22349221	CD, 220pF, 50V, K	C483, 484	22488479	EL, 4.7mfd, 50V
C407, 408	22488339	EL, 3.3mfd, 50V	C501	22485470	EL, 47mfd, 16V
C409, 410	22361509	CD, 5pF, 50V, D	C502	22483101	EL, 100mfd, 10V
C411, 412	22349681	CD, 680pF, 50V, K	C503	22485100	EL, 10mfd, 16V
C413, 414	22468339	EL, 3.3mfd, 50V, Low Noise	C504	22485100	EL, 10mfd, 16V
C415, 416	22362101	CD, 100pF, 50V, K	C505	22485100	EL, 10mfd, 16V
C417, 418	22465100	EL, 10mfd, 16V, Low Noise	C506	22488339	EL, 3.3mfd, 50V
C419, 420	22488339	EL, 3.3mfd, 50V	C601	22488479	EL, 4.7mfd, 50V
C421, 422	22371103	MY, 0.01mfd, 50V, J	C602	22488479	EL, 4.7mfd, 50V
C423, 424	22488338	EL, 0.33mfd, 50V	C603	22488478	EL, 0.47mfd, 50V
			C604	22360327	BL, 0.01mfd, 25V, M
			C605	22360327	BL, 0.01mfd, 25V, M
			C606	22360331	BL, 0.047mfd, 25V, M
			C607	22360331	BL, 0.047mfd, 25V, M
			C608	22488339	EL, 3.3mfd, 50V
			C609	22483470	EL, 47mfd, 10V
			C610	22488339	EL, 3.3mfd, 50V
			C611	22488109	EL, 1mfd, 50V
			C612	22488478	EL, 0.47mfd, 50V
			C613	22488478	EL, 0.47mfd, 50V
			C614	22485100	EL, 10mfd, 16V

Symbol No.	Part No.	Description
C615	22488339	EL, 3.3mfd, 50V
C616	22485330	EL, 33mfd, 16V
C617	22360327	BL, 0.01mfd, 25V, M
C618	22360326	BL, 6800pF, 25V, M
C619	22380103	PS, 5600pF, 220V, K
	22321301	PP, 5600pF, 220V, K
 C901	22486222	EL, 2200mfd, 25V
 C902	22486102	EL, 1000mfd, 25V
C903	22485101	EL, 100mfd, 16V
C904	22485101	EL, 100mfd, 16V
C905	22485331	EL, 330mfd, 16V
C906	22485221	EL, 220mfd, 16V
C907	22485101	EL, 100mfd, 16V
C908	22485331	EL, 330mfd, 16V
<b>RESISTORS</b>		
All resistors are 1/4W, $\pm 5\%$ carbon film unless otherwise noted, K=1000, M=1000000		
R401, 402	22555333	33K ohm (PRC)
R403, 404	22555473	47K (PRC)
R405, 406	22650463	50K ohm, A, Variable, Record Volume
R407, 408	22555332	3.3K ohm (PRC)
R409, 410	22555334	330K ohm (PRC)
R411, 412	22555223	22K ohm (PRC)
R413, 414	22555562	5.6K ohm (PRC)
R415, 416	22555470	47 ohm (PRC)
R417, 418	22555473	47K ohm (PRC)
R419, 420	22555103	10K ohm (PRC)
R421, 422	22555473	47K ohm (PRC)
R423, 424	22555224	220K ohm (PRC)
R425, 426	22555274	270K ohm (PRC)
R427, 428	22658622	1K ohm, Semi-fixed Variable
R429, 430	22555682	7.2K ohm (PRC)
R431, 432	22555472	4.7K ohm (PRC)
R433, 434	22555473	47K ohm (PRC)
R435, 436	22555104	100K ohm (PRC)
R437, 438	22545106	10M ohm
R439, 440	22555104	100K ohm (PRC)
R441, 442	22555181	180 ohm (PRC)
R443, 444	22555332	3.3K ohm
R445, 446	22555473	47K ohm (PRC)
R447, 448	22555154	150K ohm (PRC)
R449, 450	22555274	270K ohm (PRC)
R451, 452	22555123	12K ohm (PRC)
R453, 454	22555152	1.5K ohm (PRC)

Symbol No.	Part No.	Description
R455, 456	22555102	1K ohm (PRC)
R457, 458	22555472	4.7K ohm (PRC)
R459, 460	22658599	10K ohm, Semi-fixed Variable
R461, 462	22555103	10K ohm (PRC)
R463, 464	22555104	100K ohm (PRC)
R465, 466	22555273	27K ohm (PRC)
R467, 468	22555272	2.7K ohm (PRC)
R469, 470	22555101	100 ohm (PRC)
R471, 472	22555153	15K ohm (PRC)
R473, 474	22555682	6.8K ohm (PRC)
R475, 476	22555472	4.7K ohm (PRC)
R477, 478	22555822	8.2K ohm (PRC)
R479, 480	22555473	47K ohm (PRC)
R481, 482	22555103	10K ohm (PRC)
R483, 484	22658604	100Kohm, Semi-fixed Variable
R485, 486	22555223	22K ohm (PRC)
R487, 488	22555333	33K ohm (PRC)
R489, 490	22555332	3.3K ohm (PRC)
R491, 492	22555181	180 ohm (PRC)
R493, 494	22555333	33K ohm (PRC)
R495, 496	22555473	51K ohm (PRC)
R497, 498	22545561	560 ohm
R499, 500	22545561	560 ohm
R501, 502	22545561	560 ohm
R503, 504	22545561	560 ohm
R505, 506	22545561	560 ohm
R507, 508	22545561	560 ohm
R509, 510	22555223	22K ohm (PRC)
R511, 512	22555223	22K ohm (PRC)
R513, 514	22555102	1K ohm (PRC) (TD)
R515, 516	22555104	100K ohm (PRC) (TD)
R517, 518	22545106	10M ohm (TD)
R519, 520	22555223	22K ohm (PRC)
R521, 522	22555224	220K ohm (PRC)
R523, 524	22555471	470 ohm (TE, TU, AY, VF, TA, TC)
R551	22555224	220K ohm (PRC)
R552	22555273	27K ohm (PRC)
R553	22555683	68K ohm (PRC)
R554	22555222	2.2K ohm (PRC)
R555	22555473	47K ohm (PRC)
R556	22555221	220 ohm (PRC)
R557	22555332	3.3K ohm (PRC)
R558	22555473	47K ohm (PRC)
R601	22555221	220 ohm (PRC)
R602	22555222	2.2K ohm (PRC)
R603	22555155	1.5M ohm
R604	22555103	10K ohm (PRC)
R605	22555334	330K ohm (PRC)
R606	22555103	10K ohm (PRC)



Symbol No.	Part No.	Description
R607	22555472	4.7K ohm (PRC)
R608	22555104	100K ohm (PRC)
R609	22555224	220K ohm
R610	22555223	22K ohm (PRC)
R611	22555103	10K ohm (PRC)
R612	22555334	330K ohm (PRC)
R613	22555472	4.7K ohm (PRC)
R614	22555154	150K ohm (PRC)
R615	22555334	330K ohm
R616	22555471	470 ohm (PRC)
R617	22555104	100K ohm (PRC)
R618	22555334	330K ohm
R619	22555103	10K ohm (PRC)
R620	22555103	10K ohm (PRC)
R621	22555334	330K ohm
R622	22555103	10K ohm (PRC)
R623	22555103	10K ohm (PRC)
R624	22555681	680 ohm (PRC)
R625	22555222	2.2K ohm (PRC)
R626	22555122	1.2K ohm (PRC)
R627	22555821	820 ohm (PRC)
R628	22555222	2.2K ohm (PRC)
R629	22555223	22K ohm (PRC)
R630	22555222	2.2K ohm (PRC)
R631	22555222	2.2K ohm (PRC)
R632	22555222	2.2K ohm (PRC)
R633	22555222	2.2K ohm (PRC)
△ R634	22570301	33 ohm, 2W, Metal Film
R635	22555471	470 ohm (PRC)
R636	22555221	220 ohm (PRC)
R637	22547331	330 ohm, 1/2W
R638	22555222	2.2k ohm (PRC)
R639	22555223	22K ohm (PRC)
△ R640	22570310	180 ohm, 2W Metal Oxided Film
R641	22555334	330K ohm
R642	22555103	10K ohm (PRC)
R643	22555152	1.5K ohm (PRC)
R644	22555223	22K ohm (PRC)
R645	22555105	1M ohm
R646	22555223	22K ohm (PRC) (TD)

Symbol No.	Part No.	Description
R647	22555104	100K ohm (PRC) (TD)
R648	22555104	100K ohm (PRC) (TD)
R649	22555224	220K ohm (PTC)
R650	22555224	220K ohm (PRC)
R652	22555332	3.3K ohm (PRC)
R653	22555221	220 ohm (PRC)
R654	22547221	220 ohm, 1/2W
R655	22547331	330 ohm, 1/2W
R656	22555569	5.6 ohm
R657	22555680	68 ohm (PRC)
R659	22555473	47K ohm (PRC)
R661	22555331	330 ohm (PRC)
△ R901	22500174	15 ohm, Fusible
R902	22555391	390 ohm (PRC)
R903	22555820	82 ohm (PRC)
△ R904	22500174	15 ohm, Fusible
R905	22555821	820 ohm (PRC)
△ R906	22500318	3.9 ohm, Fusible
R907	22555331	330 ohm
R908	22555680	68 ohm (PRC)
ACCESSORIES		
AC01	22164775	Conector Cord
AC02	22990756	Head Cleaner
AC03	22903114	Owner's Manual (TE, TD) (PC-G2, Aurex by TOSHIBA)
AC03	22903116	Owner's Manual (VF) (PC-G2, Aurex by TOSHIBA)
AC03	22903112	Owner's Manual (TA) (PC-G2, TOSHIBA)
AC03	22903113	Owner's Manual (TC) (PC-G2, Aurex)
AC03	22903115	Owner's Manual (TU, AY) (PC-G2/PC-G2T, Aurex by TOSHIBA/TOSHIBA)
AC03	22903155	Owner's Manual (TE) (PC-G2T, TOSHIBA)
AC03	22903154	Owner's Manual (VF) (PC-G2T, TOSHIBA)

# TOSHIBA CORPORATION

2-1, GINZA 5-CHOME, CHUO-KU, TOKYO 104, JAPAN

PRINTED IN JAPAN 22905035 Jul., (S)

# **TOSHIBA**

**STEREO CASSETTE DECK**

# **PC-G2, PC-G2T**

This supplement sheet contains the following contents.

- (1) The transistors, Q409 and Q410 have been changed into FETs during production.
- (2) Only for TD, AY versions, PC-G2T (Toshiba brand) will be released as a new model. Those will employ FETs for Q409 and Q410 from the first production.
- (3) Modifications applied during production are listed.

Please refer to the original SERVICE DATA, FILE No. 100 – 150 for other information.

# 1. PARTS LIST

## Service Information

### REPLACEMENTS PARTS

Changed From				Changed To			
Symbol No.	Part No.	Description	Q'ty	Symbol No.	Part No.	Description	Q'ty
Q409, 410		Transistor, 2SC2240-GR	2	Q409, 410		Transistor, 2SK246-GR	2
R421	22555473	47K ohm (PRC)	1	R421	22555224	220K ohm (PRC)	1

### ADDITIONAL PARTS

Symbol No.	Part No.	Description	Q'ty
C485, 486	22360331	BL, 0.047mfd, 25V, M	2

### DISUSE PARTS

Symbol No.	Part No.	Description	Q'ty
R422	22555473	47K ohm (PRC)	1

## PC-G2T – TD, AY

### ADDITIONAL PARTS

Symbol No.	Part No.	Description	Q'ty
301	25819480	Front Panel Ass'y	1
319	25864149	Jack Plate	1
AC03	22903295	Owner's Manual	1

Symbol No.	Part No.	Description
R607	22555472	4.7K ohm (PRC)
R608	22555104	100K ohm (PRC)
R609	22555224	220K ohm
R610	22555223	22K ohm (PRC)
R611	22555103	10K ohm (PRC)
R612	22555334	330K ohm (PRC)
R613	22555472	4.7K ohm (PRC)
R614	22555154	150K ohm (PRC)
R615	22555334	330K ohm
R616	22555471	470 ohm (PRC)
R617	22555104	100K ohm (PRC)
R618	22555334	330K ohm
R619	22555103	10K ohm (PRC)
R620	22555103	10K ohm (PRC)
R621	22555334	330K ohm
R622	22555103	10K ohm (PRC)
R623	22555103	10K ohm (PRC)
R624	22555681	680 ohm (PRC)
R625	22555222	2.2K ohm (PRC)
R626	22555122	1.2K ohm (PRC)
R627	22555821	820 ohm (PRC)
R628	22555222	2.2K ohm (PRC)
R629	22555223	22K ohm (PRC)
R630	22555222	2.2K ohm (PRC)
R631	22555222	2.2K ohm (PRC)
R632	22555222	2.2K ohm (PRC)
R633	22555222	2.2K ohm (PRC)
△ R634	22570301	33 ohm, 2W, Metal Film
R635	22555471	470 ohm (PRC)
R636	22555221	220 ohm (PRC)
R637	22547331	330 ohm, 1/2W
R638	22555222	2.2k ohm (PRC)
R639	22555223	22K ohm (PRC)
△ R640	22570310	180 ohm, 2W, Metal Oxided Film
R641	22555334	330K ohm
R642	22555103	10K ohm (PRC)
R643	22555152	1.5K ohm (PRC)
R644	22555223	22K ohm (PRC)
R645	22555105	1M ohm
R646	22555223	22K ohm (PRC) (TD)

Symbol No.	Part No.	Description
R647	22555104	100K ohm (PRC) (TD)
R648	22555104	100K ohm (PRC) (TD)
R649	22555224	220K ohm (PTC)
R650	22555224	220K ohm (PRC)
R652	22555332	3.3K ohm (PRC)
R663	22555221	220 ohm (PRC)
R654	22547221	220 ohm, 1/2W
R655	22547331	330 ohm, 1/2W
R656	22555569	5.6 ohm
R657	22555680	68 ohm (PRC)
R659	22555473	47K ohm (PRC)
R661	22555331	330 ohm (PRC)
△ R901	22500174	15 ohm, Fusible
R902	22555391	390 ohm (PRC)
R903	22555820	82 ohm (PRC)
△ R904	22500174	15 ohm, Fusible
R905	22555821	820 ohm (PRC)
△ R906	22500318	39 ohm, Fusible
R907	22555331	330 ohm
R908	22555680	68 ohm (PRC)
ACCESSORIES		
AC01	22164775	Conector Cord
AC02	22990756	Head Cleaner
AC03	22903114	Owner's Manual (TE, TD) (PC-G2, Aurex by TOSHIBA)
AC03	22903116	Owner's Manual (VF) (PC-G2, Aurex by TOSHIBA)
AC03	22903112	Owner's Manual (TA) (PC-G2, TOSHIBA)
AC03	22903113	Owner's Manual (TC) (PC-G2, Aurex)
AC03	22903115	Owner's Manual (TU, AY) (PC-G2/PC-G2T, Aurex by TOSHIBA/TOSHIBA)
AC03	22903155	Owner's Manual (TE) (PC-G2T, TOSHIBA)
AC03	22903154	Owner's Manual (VF) (PC-G2T, TOSHIBA)

**TOSHIBA CORPORATION**

2-1, GINZA 5-CHOME, CHUO-KU, TOKYO 104, JAPAN

PRINTED IN JAPAN 22905035 Jul. (S)

Symbol No.	Part No.	Description
C615	22488339	EL, 3.3mfd, 50V
C616	22485330	EL, 33mfd, 16V
C617	22360327	BL, 0.01mfd, 25V, M
C618	22360326	BL, 6800pF, 25V, M
C619	22380103	PS, 5600pF, 220V, K
	22321301	PP, 5600pF, 220V, K
⚠ C901	22486222	EL, 2200mfd, 25V
⚠ C902	22486102	EL, 1000mfd, 25V
C903	22485101	EL, 100mfd, 16V
C904	22485101	EL, 100mfd, 16V
C905	22485331	EL, 330mfd, 16V
C906	22485221	EL, 220mfd, 16V
C907	22485101	EL, 100mfd, 16V
C908	22485331	EL, 330mfd, 16V
<b>RESISTORS</b> All resistors are 1/4W, ±5% carbon film unless otherwise noted, K=1000, M=1000000		
R401, 402	22555333	33K ohm (PRC)
R403, 404	22555473	47K (PRC)
R405, 406	22650463	50K ohm, A, Variable, Record Volume
R407, 408	22555332	3.3K ohm (PRC)
R409, 410	22555334	330K ohm (PRC)
R411, 412	22555223	22K ohm (PRC)
R413, 414	22555562	5.6K ohm (PRC)
R415, 416	22555470	47 ohm (PRC)
R417, 418	22555473	47K ohm (PRC)
R419, 420	22555103	10K ohm (PRC)
R421, 422	22555473	47K ohm (PRC)
R423, 424	22555224	220K ohm (PRC)
R425, 426	22555274	270K ohm (PRC)
R427, 428	22658622	1K ohm, Semi-fixed Variable
R429, 430	22555682	7.2K ohm (PRC)
R431, 432	22555472	4.7K ohm (PRC)
R433, 434	22555473	47K ohm (PRC)
R435, 436	22555104	100K ohm (PRC)
R437, 438	22545106	10M ohm
R439, 440	22555104	100K ohm (PRC)
R441, 442	22555181	180 ohm (PRC)
R443, 444	22555332	3.3K ohm
R445, 446	22555473	47K ohm (PRC)
R447, 448	22555154	150K ohm (PRC)
R449, 450	22555274	270K ohm (PRC)
R451, 452	22555123	12K ohm (PRC)
R453, 454	22555152	1.5K ohm (PRC)

Symbol No.	Part No.	Description
R455, 456	22555102	1K ohm (PRC)
R457, 458	22555472	4.7K ohm (PRC)
R459, 460	22658599	10K ohm, Semi-fixed Variable
R461, 462	22555103	10K ohm (PRC)
R463, 464	22555104	100K ohm (PRC)
R465, 466	22555273	27K ohm (PRC)
R467, 468	22555272	2.7K ohm (PRC)
R469, 470	22555101	100 ohm (PRC)
R471, 472	22555153	15K ohm (PRC)
R473, 474	22555682	6.8K ohm (PRC)
R475, 476	22555472	4.7K ohm (PRC)
R477, 478	22555822	8.2K ohm (PRC)
R479, 480	22555473	47K ohm (PRC)
R481, 482	22555103	10K ohm (PRC)
R483, 484	22658604	100K ohm Semi-fixed Variable
R485, 486	22555223	22K ohm (PRC)
R487, 488	22555333	33K ohm (PRC)
R489, 490	22555332	3.3K ohm (PRC)
R491, 492	22555181	180 ohm (PRC)
R493, 494	22555333	33K ohm (PRC)
R495, 496	22555473	51K ohm (PRC)
R497, 498	22545561	560 ohm
R499, 500	22545561	560 ohm
R501, 502	22545561	560 ohm
R503, 504	22545561	560 ohm
R505, 506	22545561	560 ohm
R507, 508	22545561	560 ohm
R509, 510	22555223	22K ohm (PRC)
R511, 512	22555223	22K ohm (PRC)
R513, 514	22555102	1K ohm (PRC) (TD)
R515, 516	22555104	100K ohm (PRC) (TD)
R517, 518	22545106	10M ohm (TD)
R519, 520	22555223	22K ohm (PRC)
R521, 522	22555224	220K ohm (PRC)
R523, 524	22555471	470 ohm (TE, TU, AY, VF, TA, TC)
R551	22555224	220K ohm (PRC)
R552	22555273	27K ohm (PRC)
R553	22555683	68K ohm (PRC)
R554	22555222	2.2K ohm (PRC)
R555	22555473	47K ohm (PRC)
R556	22555221	220 ohm (PRC)
R557	22555332	3.3K ohm (PRC)
R558	22555473	47K ohm (PRC)
R601	22555221	220 ohm (PRC)
R602	22555222	2.2K ohm (PRC)
R603	22555155	1.5M ohm
R604	22555103	10K ohm (PRC)
R605	22555334	330K ohm (PRC)
R606	22555103	10K ohm (PRC)